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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, Shauney 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 2014 Review Committee

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SNL Directors and Committees

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Max Planck Institute for Psycholinguistics,
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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

Save the Date!

SNL 2015
October 14-16
Chicago
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
Beursfoyer

1:00 – 1:30 pm  Opening Remarks - Peter Hagoort, SNL Chair
Effectenbeurszaal

1:30 – 2:30 pm  **Keynote Lecture - Willem J.M. Levelt**
Localism versus holism. The historical origins of studying language in the brain.
Effectenbeurszaal

2:30 – 3:00 pm  Coffee Break
Grote Zaal

2:30 – 4:30 pm  Poster Session A
Grote Zaal

4:30 – 5:50 pm  Slide Session A – Speech Processing
Effectenbeurszaal

7:00 - 8:00 pm  Canal Boat Tour
& 8:15 - 9:15 pm  (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
Beursfoyer

8:00 - 8:30 am  Coffee Break
Grote Zaal

8:30 - 9:50 am  Slide Session B – Language Evolution and Brain Structure
Effectenbeurszaal

10:00 - 10:30 am  Coffee Break
Grote Zaal

10:00 am – 12:00 pm  Poster Session B
Grote Zaal

12:00 – 1:00 pm  Lunch Served
Grote Zaal

1:00 – 2:20 pm  **Keynote Lecture - Constance Scharff**
Singing in the (b)rain
Effectenbeurszaal

2:30 – 4:00 pm  Panel Discussion
What counts as neurobiology of language – a debate
Effectenbeurszaal

4:00 – 4:30 pm  Coffee Break
Grote Zaal

4:00 - 6:00 pm  Poster Session E
Grote Zaal

6:00 – 7:00 pm  **Keynote Lecture – Mike Tomasello**
Communication without Conventions
Effectenbeurszaal

7:00 – 7:15 pm  Closing Remarks - Nina Dronkers, SNL Chair-Elect
Effectenbeurszaal

7:15 – 8:15 pm  Social Hour
Beurs van Berlage Café

**Friday, August 29th**

7:30 am – 7:00 pm  Pre-Registration Check-In and Onsite Registration
Beursfoyer

8:00 - 8:30 am  Coffee Break
Grote Zaal

8:30 - 9:50 am  Slide Session C – Combinatorial Processing: Syntax, Semantics, Pragmatics
Effectenbeurszaal

10:00 am – 12:00 pm  Poster Session D
Grote Zaal

12:00 – 1:00 pm  Lunch Served
Grote Zaal

1:00 – 2:20 pm  Slide Session D - Lexical Processing and Cognitive Control
Effectenbeurszaal

2:30 – 4:00 pm  Panel Discussion
What counts as neurobiology of language – a debate
Effectenbeurszaal

4:00 – 4:30 pm  Coffee Break
Grote Zaal

4:00 - 6:00 pm  Poster Session F
Grote Zaal

6:00 – 7:00 pm  **Keynote Lecture – Pascal Fries**
Brain rhythms for bottom-up and top-down signaling
Effectenbeurszaal

7:00 – 7:15 pm  Closing Remarks - Nina Dronkers, SNL Chair-Elect
Effectenbeurszaal

7:15 – 8:15 pm  Social Hour
Beurs van Berlage Café
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 Gatell**, 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 Fridriksen, Joao Correia

4:30 pm  
A1  The When and Where of Multisensory Speech Processing  Kristen Berry1, Valerie Nunez1, Werner Doyle1, Callah Boomhaur1, Lucia Melloni1,2, Daniel Friedman1, Patricia Dugan1, Orrin Devinsky4, Eric Halgren5, Thomas Thesen1,2; 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 Fridriksen1, 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 Sessions

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 Wilson1,2, Yukiko Kikuchi1,2, Kenny Smith1, William Marslen-Wilson1, Christopher Petkov1,2; 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 Sereno1,2, Rachel Kelly1, Mark Kenny-Jones1, Martina Callaghan1; 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 Tremblay1, 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 Hultén1,2, Jan-Mathijs Schoffelen1,2, Julia Uddén1,2, Nietzsche Lam1,2, Peter Hagoort1,2; 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 Balewski1; 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 Pillay1,2, 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 Kliegl1, 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-Adelman1,2, Barbara Moser-Mercer3, Narly Golestani3; 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 Hell1,2, 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.

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<td>Wednesday, August 27</td>
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| **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                                |
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, Benjamín 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, 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 Lima1, 2, Stuart Rosen1, Markus Ostarek1, Angela Richards1, Carolyn McGgettigan1, Zarinah Agnew1, 2, Sophie Scott1, 1University College London, 2University of Porto, 3University of California, San Francisco

A13 Tracking the time course of the processing of reduced inflections: 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 Kreilewolf1, Angela D. Friederici1, Katharina von Kriegstein1, 2, 1Max Planck Institute for Human Cognition and Brain Sciences, 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 Rogalski1, 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 Lavani1, Cesar F Lima2, Hannah Harvey1, Sophie K Scott1, Carolyn McGgettigan1, 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 Zhang1, 2, Kenneth R. Pugh1, 2, 3, W. Einar Merøy1, 4, Peter J. Molfese1, Stephen J. Frost1, James S. Magnuson3, 5, Gang Peng1, 2, 3, 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

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. Kratschmer2, Michael N. Pedersen2, 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 Kretzschmar1, 2, Matthias Schlesewsky1, Adrian Staub1, 3, Philippus University Marburg, 4Johannes Gutenberg University Mainz, 1University of Massachusetts Amherst

A4 High-definition transcranial direct current stimulation of single word processing  
Svetlana Malysutina1, Dirk-Bart den Ouden1, 1University of South Carolina

A5 Neural signatures of incremental text processing correlate with word entropy in a natural story context  
Philip Alday1, Jona Sassenhügen1, Ina Bornkessel-Schleseswky1, 2, 3, 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 McGgettigan1, Nadine Lavani1, Eamonn Walsh1, Zarinah Agnew1, Rosemary Jessop1, Sophie Scott1, 1Royal Holloway, University of London, 2King’s College, University of London, 3University of South Australia, 4UCSF, 5University College London

A8 Profiles of age-related structural decline and stability in neuroanatomical systems supporting vocal emotion processing  
Cesar Lima1, 2, Nadine Lavani1, Samuel Evans1, Zarinah Agnew1, Pradeep Shanmugalingam1, Jane Warren1, São Luís Castro1, 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  
Siemad H.Y. Chen1, Samuel Evans1, César Lima1, 2, Naiara Demnitz1, Dana Boebinger1, Sophie Scott1, 1University College London, 2University of Porto

Poster Session A

Auditory Perception, Speech Perception, Audiovisual Integration

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A19  The melody of speech: what can event-related potentials tell us about emotional prosody processing?  Ana Pinhetro1, 2School of Psychology, University of Minho, Braga, Portugal

A20  On the lateralisation of pitch processing: language makes the switch from right to left  Tomás Gouca1, 2Jens Kreitezwolf, Angela D. Friederici1, 2Max 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 1Fan Su, Sam-Po Law1, Hiu-Lam Helen Lui1; 2The University of Hong Kong

A22  Letter position sensitivity in the VWFA: Evidence from multivariate searchlight analyses in MEG-EEG  Jana Klimova1, Caroline Whitting2, Samarth Varnam3, William Marslen-Wilson4; 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 Bruno1, Roth Muriel1, Anton Jean-Luc2, Alario François-Xavier3, Velay Jean-Luc4; 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 Grainger1, 2Phillip Holcomb1, 2San Diego State University, 3Aix-Marseille University, 4Tufts University, 5CNRS

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. Kotz1, David S. Schmidtke1, Arash Arzani1, Arthur M. Jacobs1; 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 Vassileiou1, 2Lars Meyer1, Claudia Männel1, Isabell Wartenburger1, Anna Strothe1, 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  Guilyon Lockwood1, 2Jyriki Tuomainen1, 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  Evelyne Mercure1, Sarah Lloyd-Fox2, Anna Blasi3, Clare E. Etzel4, Mark H Johnson5; 1The BASIS Team, 2University College London, 3Birkbeck College, University of London, 4The 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 Junttila1, Minna Huotilainen1, 2; 1University of Helsinki, 2University of Jyväskylä, 3Finnish Institute of Occupational Health

A31  Fading out a foreign language  Jon Andoni Duñabeitia1, Manuel Carreiras1, 2, Alejandro Pérez1, 3Basque Center on Cognition, Brain and Language (BCBL); Donostia, 4Ikerbasque, Basque Foundation for Science; Bilbao, 5University of the Basque Country, Bilbao

A32  Eye-tracking reveals incremental processing of words in 18-month-olds  Angelika Becker1, Ulrike Schüll2, Claudia Friedrich1; 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 Setoni1, Susanne M. Brouwer1, Laurie A. Stowe2, Monika S. Schmidt1, 2; 1University of Groningen, 2Utrecht University, 3University of Essex

A34  Neural reflections of individual differences in artificial grammar learning  Anne van der Kant1, 2, Niels Schilller1, Claartje Levelt1, Eveline Crone1, Annemie Van der Linden1; 2Leiden University, 3University of Antwerp

A35  Infants can perceive audiovisual speech asynchrony (if it’s asynchronous enough)  Heather Bortfeld1, 2, Kathleen Shaw2, Martijn Baart1; 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  Katarina Chladekova1, Paola Escudero1; 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 Heggland1, Hanna V. Valderhaug1, Josef J. Bless1, Wenche Heggland2, 4, Fraydik Marken1, Janne v.K Torkildsen1; 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 Carreiras1, 2, Cesar Caballero-Guades1; 1Basque Center on Cognition, Brain, and Language (BCBL), Donostia, Spain, 2IKERBASQUE. Basque Foundation for Science, Bilbao, Spain, 3University of the Basque Country, LIP/EHU, Spain

A39  White matter disruption and language processing in traumatic brain injury  Karine Marcotte1, 2, Edith Durand1, 2, Caroline Arbour1, 2, Pierre-Olivier Gaudreault1, 2, Nadia Gosselin1, 2; 1École d’orthophonie et d’audiologie, Faculté de Médecine, Université de Montréal, Montréal, Canada, 2Centre de recherche de l’Hôpital
The Society for the Neurobiology of Language

A40  Depth of encoding through gestures in foreign language word learning  
Manuela Macedoniet al., Claudia Repetto, Anja Ischebeck, Johannes Kepler University Linz (Austria), Max Planck Institute for Human Brain Sciences Leipzig (Germany), Universität Cattolica Milan (Italy), University of Graz (Austria)

Lexical Semantics

A41  An electrophysiological investigation of the distractor frequency effect in picture-word interference  
Stephanie K. Ries, Greig de Zubicaray, Douglas Fraser, Katie McMahont, University of California, Berkeley, University of Queensland

A42  Investigating the processing of conceptual components in language production  
Alexandra Redmann, Ian FitzPatrick, Frauke Hellige, Peter Indefrey, Heinrich Heine University Düsseldorf, Radboud University Nijmegen

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

A44  Visually perceived spatial distance modulates an early neural response to different semantic relations  
Ernesto Guerra, Melissa Troyer, Ben D. Ansell, Thomas P. Urbach, Katherine A. DeLong, Pia Knoeferle, Marta Kutas, Bielefeld University, Germany, University of California San Diego, USA, Max Planck Institute for Psycholinguistics, The Netherlands

A45  Interference from related actions in spoken word production: an fMRI study  
Greig de Zubicaray, Douglas Fraser, Kori Johnson, Katie McMahont, School of Psychology, University of Queensland, Centre for Clinical Research, University of Queensland, Centre for Advanced Imaging, University of Queensland

A46  Neural dynamics of lexical-semantic processes during word production: Action verbs, action nouns and object nouns  
Raphael Fargier, Marina Laganarot, FAPSE, University of Geneve, Geneva, Switzerland

A47  Similarities and differences in the semantic representations of words and objects: evidence from multi-voxel pattern analyses  
Barry Devereux, Alex Clarke, Andreas Marouchos, Lorraine K. Tyler, University of Cambridge

A48  Oscillatory responses to highly predictable words differentiate between expectations based on semantic or associative contextual constraints  
Irene Fernandez Monsalve, Alejandro Perez, Nicolza Molinarto, Basque Center on Cognition, Brain and Language (BCBL), Ikerbasque, Basque Foundation for Science

A49  Ventral and dorsal reading networks are modulated by task demands and language orthography: Regional and functional connectivity evidence  
Myriam Oliver, Manuel Carreiras, Pedro. M. Paz-Alonso, Basque Center on Cognition, Brain and Language (BCBL), Donostia-San Sebastián, Spain, Ikerbasque, Basque Foundation for Science, Bilbao, Spain, Departamento de Lengua Váca y Comunicación, UPV/EHU, Bilbao, Spain

A50  Do semantic representations automatically activate their corresponding phonological and orthographic representations?  
Orna Peleg, Lee Edelis, Dafna Bergerbest, Zohar Eviatar, Tel-Aviv University, Academic College of Tel-Aviv Yaffo, University of Haifa

A51  Semantic conflict resolution abilities among adults with and without ADHD  
Dorit Segal, Nira Mashal, Lilach Shalev, School of Education, the Hebrew University of Jerusalem, Israel, School of Education, Bar Ilan University, Ramat-Gan, Israel, Gonda Multidisciplinary Brain Research Center, Bar Ilan University, Ramat-Gan, Israel, School of Education, Tel-Aviv University, Israel, School of Neuroscience, Tel-Aviv University, Israel

A52  Semantic association and categorical relatedness of semantic processing in youths with autism spectrum disorder  
Ciao-Han Wong, Susan Shur-Fen Gau, Tai-Li Chou, Department of Psychology, National Taiwan University, Taiwan, Department of Psychiatry, National Taiwan University Hospital and College of Medicine, Taiwan, Neurobiology and Cognitive Science Center, National Taiwan University, Taiwan, Graduate 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 Randall, Lorraine K. Tyler, Barry J. Devereux, University of Cambridge

Discourse, Combinatorial Semantics

A54  The dynamics of information integration in the brain during story reading  
Leila Webbe, Ashish Vasuwan, Kevin Knight, Tom Mitchell, Carnegie Mellon University, University of Southern California

A55  How minds meet: Cerebral coherence between communicators marks the emergence of meaning  
Arjen Stolk, Matthijs Noordzij, Leenart Verhagen, Inge Volman, Jan-Mathijs Schoffelen, Robert Oostenveld, Peter Hagoort, Ivan Toni, Radboud University Nijmegen, University of Twente, Max Planck Institute for Psycholinguistics

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

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

A58  Impairments in cognitive control modulate adaptation during comprehension of cartoon-like stories  
Tamara Swaub, Megan Boudewyn, Debra Long, George Mangun, Matthew Traxler, Cameron Carter, UC Davis
Syntax, Morphology

A59 Music and language syntax interact in Broca’s area: an fMRI study
Richard Kunert1,2, Roel Willems3,4, Daniel Casasanto1, Aniruddh Patel4, Peter Hagoort1,2,1 Max Planck Institute for Psycholinguistics, Nijmegen, The Netherlands, 2 Radboud University Nijmegen, Donders Institute for Brain, Cognition and Behavior, Nijmegen, The Netherlands, 3 Psychology Department, University of Chicago, Chicago, IL, 4 Tufs University, Medford, MA

A60 Neurophysiological evidence for whole form retrieval of complex derived words: a mismatch negativity study
Jeff Hanna1, Friedemann Pulvermuller1; 1Brain Language Laboratory, Free University Berlin

A61 Competition and prediction in the auditory processing of morphologically complex words
Tal Linzen1, Phoebe Gaston1, Laura Gavilanes1, Alec Mannutz1,2; 1 New York University, 2 NYU Institute of Language and Cognition, New York University, Abu Dhabi

A62 Oscillatory dynamics of syntactic unification
Katrien Segaert1,2, Ali Mazaheri1, Rene Scheeringer1, Peter Hagoort1,2, 1 Max Planck Institute for Psycholinguistics, 2 Donders Institute for Brain, Cognition and Behavior, 3 Academic Medical Centre, University of Amsterdam

A63 ‘Semantic blocking’ solved at last: ERP evidence challenging syntax-first models
Stefanie Nickels1,2, Fayden Sara Bokhari1, Karsten Steinhauser1,2, 1 McGill University, 2 Centre for Research on Brain, Language and Music (CRBLM)

A64 Neurobiological attention mechanisms of syntactic and prosodic focusing in spoken language
Diana Dimitrova1,2, Tineke Snijders1,2, Peter Hagoort1,2, 1 Donders Institute for Brain, Cognition and Behaviour, 2 Centre for Cognitive Neuroimaging, 3 Radboud University Nijmegen, Centre for Language Studies, 3 Max Planck Institute for Psycholinguistics

A65 Distribution of grammatical functions across bihemispheric and left fronto-temporal networks
Mirjana Bozic1,2, Christina Ye1,2, William Marslen-Wilson1,2; 1 Department of Psychology, University of Cambridge, 2 MRC 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 Selm1,2, Anja Fengler1, Angela D. Friederici1, Hellmut Obrig1, 1 Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany, 2 Clinic 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 Fonteneau1,2, Mirjana Bozic1,2, William Marslen-Wilson1,2; 1 Department of Psychology, University of Cambridge, 2 MRC Cognition and Brain Sciences Unit, Cambridge, UK

A68 Attention modulates explicit knowledge of language structures reflected in encoding differences during learning
Ruth De Diego-Balaguer1,2,3, Diana Lopez-Barroso1, David Cucurella1, Nuria Sagarra1; 1 CREA, Catalan Institute of Research and Advanced Studies, Barcelona, Spain, 2 Universitat de Barcelona, Dept de Psicologia Bàsica, 3 IDIBELL, Bellvitge Biomedical Research Institute, 4 ICJM, Institut du Cerveau et de la Moelle Épinière, Groupe Hospitalier Pitié-Salpêtrière, Paris, France, 5 Fundació Bosch i Gimpera, Barcelona, Spain, 6 Rutgers State University, Dept of Spanish and Portuguese, New Brunswick, USA

A69 Reference to the past visualized in the brain
Laura S. Bas1,2,3, Jim Ries1, Roelien Bastiaansen1, Isabell Wartenburger2; 1 International Doctorate for Experimental Approaches to Language and Brain (IDEALAB), Universities of Groningen (NL), Newcastle (UK), Potsdam (DE), Trento (IT) & Macquarie University, Sydney (AU), 2 University of Potsdam (Potsdam, DE), 3 University of Groningen (Groningen, NL)

A70 Time course of noun phrase production by German-French bilinguals
Audrey Bürki1,2, Marina Laganev1, Jasmin Sadat1, Alario Xaver1; 1 University of Geneva, Switzerland, 2 Royal Holloway, University of London, UK, 3 CNRS and Aix-Marseille Université, France

Control, Selection, Working Memory

A71 Older Adults Fail to Show Activity Increases for Inhibition on Hayling Task
Bruce Crosson1,2, Ilana Levy1, Stephen Towler1,2, Michelle Benjamini1, Keith McGregor1,2; 1 VA RR&D Center for Visual & Neurocognitive Rehabilitation, Emory University, 2 Emory State University, 3 University of Florida, 4 University of Alabama, Birmingham, Temple University

A72 Bilingual Language Control in Aging: Effects of Individual Differences in Executive Functions. An rTMS Study
Arvina Sudarshan1,2, Shari Baun1,2; 1 School of Communication Sciences & Disorders, McGill University, Montreal, Canada, 2 Centre for Research on Brain, Language & Music, McGill University, Montreal, Canada

A73 The Neural Correlates of Individual Differences in Bilingual Language Control
Brianna L. Yamazaki1, Andrea Stocco1, Chantel S. Prat2; 1 University 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; 1 University of York and York Neuroimaging Centre, UK

A75 Broca’s region and visual word form area activation during a predictive stroop task
Mikkel Wallentin1,2, Claus H. Graehl1,4, Anne Skakkebæk1; 1 Center of Functionally Integrative Neuroscience, Aarhus University Hospital, building 10-G-5, Nørrebrogade, 8000 Aarhus C, Denmark, 2 Center for Semiotics, Aarhus University, Denmark, 3 Department of Endocrinology and Internal Medicine (MEA), Aarhus University Hospital, 8000 Aarhus C, Denmark, 4 Department 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 Menc1, Hannah R. Jones1, Stephen J. Frost1, Clinton L. Johns1, Morgan Bontrager2, Dave Kush1; 1 Haskins Laboratories, 2 Yale University, 3 University of Connecticut
**Language Disorders**

A77 Neurophysiological alterations during phoneme and word processing in the acute stage of aphasia  
  Annelies Aerts1,2, Pieter van Mierlo1, Robert J. Hartsuiker1, Patrick Santens1,2, Miet De Letter1,2; 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 Kieukulainen1, Teija Kujala1; 1University of Helsinki

A79 fMRI reveals atypical processing of letters and speech sounds in beginning readers at family risk for dyslexia  
  Katarzyna Chry1,2, Anna Banaszkiewicz1,2, Agnieszka Dębaska1,2, Magdalena Łaniewska1,2, Agata Zelechowska1,2, Marek Wypych1, Artur Marcheska1, 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 Wagle1, Margaret Ugolini1, Annette Richard1, Joulia Kovelman1, Susan Bowyer1, Renee Lajiness-O’Neill1; 1University of Michigan, 2Eastern Michigan University, 3Henry Ford Hospital

A82 Atypical skill acquisition in children with language impairment  
  Esther Adi-Japha1,2, Mona Julius1; School 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. Cherny1, Xue Wang1, Lynn M. Rogers1,2, Todd Parrish1; 1Rehabilitation Institute of Chicago, 2Northwestern University

A85 Structure-behavior Correspondences for Canonical Sentence Comprehension in Broca’s Aphasia  
  Michelle Ferrill1,2,2, Matthew Walenski1,3, Tracy Love1,2; 1University of Texas, Austin, 2School of Speech Language and Hearing Sciences, San Diego State University, 3Center for Research in Language, University of California, San Diego

A86 Graph-theoretic analysis of resting state brain networks in post-stroke aphasia  
  Jason W. Bohland1, Kushal Kapse1, Swathi Kirani1; 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’Imperio1, Giuseppe di Pellegrino1, Arjen Stolk1; 1Donders Institute for Brain, Cognition and Behaviour, Radboud University, The Netherlands, 2Dipartimento di Psicologia, Universita’ di Bologna, Italy

B2 Job interview in the fMRI scanner: pragmatic inferences in real addresses  
  Jana Basnakova1,2, Kirsten Weber1,2, Peter Hagoort1,2, Jos van Berkum3; 1Max Planck Institute for Psycholinguistics, Nijmegen, NL, 2Institute for Experimental Psychology, SAS, Slovakia, 3Donders Institute for Brain, Cognition and Behaviour, Radboud University Nijmegen, NL

B3 The Social N400 effect: how the presence of other listeners affects language comprehension  
  Shirley-Anne Raeschemeyer1, Tom Gardner2, Cat Stoner1; 1University of York, 2University of Bangor

B4 Social coordination in Amyotrophic lateral sclerosis  
  Elizabeth Gjersvik1, Nicola Spotorno1, Ashley Boller-Hewitt1, Lauren Elman2, Leo McCluskey1, John Woo2, Katya Raskowsky1, Robin Clark1, 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 Spotorno1, 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 Bonte1, Anke Ley2, Elia Formisano2,3; 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 Adank1; 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  
  Katerina Chlaidikou1, Paola Escudero1; 1University of Amsterdam, the Netherlands, 2University of Western Sydney, Australia
B11  Shape-sound matching abilities are limited in young monolingual and bilingual infants  Jovana Pejović1, Monica Molnar2, Clara Martin3, Elling Yee4; 1Basque Center on Cognition, Brain and Language (BCBL)

B12  Corticostrial contributions to feedback-dependent speech category learning  Bharath Chandrasekaran1, Han Guo-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 Lim1,2, Andrew J. Lotto1, Jonas Oblinger3, Lori L. Holt1,2; 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 Vos1,2, Robert Luke1, Jolijn Vandersande1,2, Pal Ghesquière1, Jan Wouters1; 1KU Leuven, 2Experimental oto-rhino-laryngology, Leuven (Belgium), 3KU 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-Corina1,2, Denise Padden1, Cherie Percaccio2, Patricia Kuhl1; 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  Priscila Sleifer1, Lenisa Brandão1, Kamila Grotto1, Amanda Berticelli Zanatta1, Audrei Thayse Viegel 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 Bourguignon1,2, Vincent L. Gracco1,2, Douglas M. Shiller2,3; 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-Cabrera2,3, Maartje van der Meij2, Horacio A. Barber2,3; 1Universidad de La Laguna, Tenerife, Spain, 2Basque Center on Cognition, Brain and Language, 3Basque Center on Cognition, Brain and Language, Spain

B20  Emotional Context modulates Embodied Metaphor Comprehension  Dalma Samur1, Vicky Tsuyuin Lii2, Peter Hagoort1,2, Joel Willems3,1; 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 Lobben, Laura Wortinger Bakke; 1Department of psychology, University of Oslo, 2Department of psychology, University of Oslo

B22  White matter fiber tracking in left Arcuate Fasciculus reveals individual differences in aptitude for phonetic speech imitation  Susanne Reiterer1,2, Lucia Vaupero3, Antoni Rodriguez-Fornells3; 1Unit for Language Learning and Teaching Research, 2Philological Faculty of the University of Vienna, Austria, 3University Clinic Tübingen, former Section of Experimental MR of the CNS, Tübingen, Germany, 4Cognition and Brain Plasticity Group, University of Barcelona & IDIBELL, Barcelona, Spain.

B23  Vocal learning and the importance of noise  Anna J Simmons1, Richard J S Wise1, Robert Letch1; 1Imperial College London

B24  What you learn is what you get: Why inferior frontal cortex is involved in language understanding  Friedemann Pulvermüller1, Max Garagnani1,2; 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 Pygkänäki2,3; 1NYUAD Institute, New York University, Abu Dhabi, 2New York University

B27  Thickness Asymmetry in Language-Relevant Cortex: Effects of Bilingualism  Christine Chiarello1, Aurora I. Ramos1, David Vazquez2, Maya Ravid1, Adam Daily1, Adam Felten1, 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, Shumin Wang1, Yu-Ju Lani1, 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 Baene1,2, Wouter Duyck1, Marcel Brass1, Manuel Carreiras2,3; 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 Prado2; 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 Martiní1,2, Monika Molnar1, Manuel Carreiras2,3; 1Basque Center on Cognition, Brain, and Language (BCBL), Donostia, Spain, 2IERBASQUE. 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 Thierry2; 1Bangor University, UK

B34 Learning Novel Words through Enactment: A Combined Behavioral and fMRI Study
Manuela Macedonio1, Alexander Heidekum2, Anja Ischebeck1; 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 Zaviers2, Katharina Wittfeld3, Alexander Teumer4, Alejandro Arias Vasquez3, Martine Hoogman2, Peter Hagoort2, Guileen Fernández2,5, Hans Grabe6, Simon Fisher2,5, Clyde Franks1,5, et al.; 1Max Planck Institute for Psycholinguistics, Nijmegen, the Netherlands, 2Donders Institute 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, Wai K Chung1, Sophie Adler1, Frances M Conna1; 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 Jost1,2, Morten Christensen1, Nicole Brennan1, Andre Holodny1; 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
Henghuang Liu1, SH Annabel Chen1; 1South China Normal University, 2Chinese University of HongKong

B40 The automaticity of language-perception interactions
Jolien C. Francken1, Erik L. Meijis1, Peter Kok1, Simon van Gaal1,2, Peter Hagoort1,2, Floris P. de Lange3; 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 Arawena1, Louise Raquet1, Anne Cheylan1, Yves Paulignan1, Carolina Ciumas2, Tatjana Nazir3; 1FAPSE, University of Geneva, Geneva, Switzerland, 2L2C CNRS-UJMR5304, Institute of Cognitive Science, Bron, France

B42 Early differences in semantic processing during visual naming
F.-Xavier Alario1,2, Dashiel Mundinger3, Anne-Sophie Dubarry2,5, Sophie Chen1,3, Jean-Michel Badier5,5, Marieke Longcamp2; 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 Ferreira, 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 Häuser1,2, Shari Baun1,5, Debra Titone2,6; 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-Stephens1, Kenneth D. Laxer2, Peter B. Weber2,3, Rachel A. Kupernan1, Kurtis I. Auguste4, Jose Parviz2, Nina F. Dronkers5, Robert T. Knight1; 1University of California, Berkeley, CA, USA., 2Veterans Affairs Health Care System, California Pacific Medical Center, San Francisco, CA, USA., 3University of California San Francisco, CA, USA., 4Stanford School of Medicine, CA, USA., 5Veterans Affairs Health Care System, Martinez, CA, USA, 6University 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 Zhou1; 1Nanjing Normal University, 2Peking University

B50 Marking the counterfactual: ERP evidence for pragmatic processing of German subjunctives
Eugenia Kalakou1, Dominik Freunberger1, Dietmar Roehm1; 1University of Salzburg

B51 Different brain dynamics for the late anterior and posterior positivities in semantic processing
Jian Huang1,2, Suiping Wang1, Hsuan-Chih Chen2; 1South China Normal University, 2Chinese University of HongKong
B52 Relational vs. attributive interpretation of noun-noun compounds differentially engages angular gyrus
Christine Boylan1, John C. Trueswell2, Sharon L. Thompson-Schill1; 1University of Pennsylvania

B53 ERP indices of word frequency and predictability in left and right hemispheres
Yoanna Vergilova1, Heiner Drenhaus1, Matthew Crocker2; 2Saarland University

B54 Before and after, and processing presuppositions in discourse
Ming Xiang1, Emily Hankin1, Genna Vegh2; 1University of Chicago

B55 Human Intracranial Electrophysiology Reveals Common Semantic Processing for Comprehension of Written Sentences and Visual Scenes
Peter Ford Dominey1,2, Sullivan Hidott3, Anne-Line Joueri4, Marcela Perrone-Bertolotti2, Carol Madden-Lombardi1,2, Joëlle Ventre-Dominey1,2, Jean-Phillipe Lecuna1, 1INSEERM Stem Cell and Brain Research Institute, Bron, France, 2University of Lyon, France, 3CNRS France, 4Univ. Grenoble Alpes, LPG, 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; 1The University of Pennsylvania, 2University of California, Irvine, 3Institut du Cerveau et de la Moelle Épinière, Institut National de la Santé et de la Recherche Médicale U992, F-91919 Gif-sur-Yvette, France, 4Neurospin Center, Institute of BioImaging Commissariat à l’Energie Atomique, F-91919, Gif-sur-Yvette, France, 5Institut du Cerveau et de la Moelle Épinière, 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, 6Université Paris 11, Orsay, France, 7AP-HP Groupe hospitalier Pitié-Salpêtrière, Paris, France, 8Collège de France, F-75005 Paris, France

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, 2Washington University, St Louis

B59 Fearing and loving: verb category matters in processing implicit causality
Eina Shetreet1,2, Joshua K. Hartshorne1, Gina R. Kuperberg1, 1Tufts University, 2Massachusetts Institute of Technology

B60 Lateralization of Joke Meanings in Normal Adults: A Hemifield Investigation
Jyotisna Vaid1, Rachel Hull1, Hsin Chin Chen1, Sameerja Tosun1, Robert Savoy2; 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 network language
Roei Willens1,2, Stefan Frank1, Anneli Nijhoff1, Peter Hagoort1-2, Antal van den Bosch1-3, 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 Rogalsky2; 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 Martin2; 1Rice University

B65 Dissociation of comprehension and transformation processes for solving algebraic equations: An fMRI study
Tomoya Nakai1,2, Hiroyuki Miyashita1,2, Kunigoshi L. Sakai1,2; 1the University of Tokyo, 2JSPS Research Fellow, 3CREST, JST

B66 Constituent structure representations revealed with intracranial data
Matthew Nelson1,3, Imen El Karoui4, Christophe Pallier2-4, Laurent Cohen2,3, Lionel Naccache3,3, Stanislas Dehaene2-5,6, 1Cognitive Neuroimaging Unit, Institut National de la Santé et de la Recherche Médicale, U992, F-91919 Gif-sur-Yvette, France, 2Neurospin Center, Institute of BioImaging Commissariat à l’Energie Atomique, F-91919, Gif-sur-Yvette, France, 3Institut du Cerveau et de la Moelle Épinière, 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, 6University 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 Wohltjen1,2; 1University of South Carolina, 2University of Virginia

B68 Similarity-based interference during comprehension of noun phrases: Evidence from ERPs
Andrea E. Martin1, Mante S. Nieuwland2; 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 Stuart1; 1University of Edinburgh, 2University of Reading

B70 Implicit Structured Sequence Learning: An EEG Study of the Structural Mere-Exposure Effect
Karl Magnus Petersson1,2, Susana Silva1, Vesna Folic, Ana-Carolina Sousa1, 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 Alday2, Katerina Kandylaki2, Matthias Schleseswsky2, Dietmar Roduhn1, Ina Bornkessel-Schleseswsky1,3; 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 Blank, Evelina Fedorenko; MIT, MGH

B73 Predictability of a gap inside a syntactic island is reflected by an N400 effect in high span readers
Dan Michel, Robert Kluender, Seana Coulson; University 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 Limnik, Waisa Shun, Anthony Pak Hin Kong, Sam-Po Law; International Doctorate for Experimental Approaches to Language and Brain (iDEALAB), University of Potsdam, Potsdam, Germany, University of Groningen, Groningen, The Netherlands, Division of Speech and Hearing Sciences, University of Hong Kong, Department of Communication Sciences and Disorders, University of Central Florida, FL, USA

B75 Beyond words: Pragmatic inference in the behavioral variant of frontotemporal dementia
Nicola Spotorno, Corey McMillan, Katja Raskovsky, Robin Clark, Murray Grossman; Penn Frontotemporal Degeneration Center, Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA, USA, Department of Linguistics, University of Pennsylvania, Philadelphia, PA, USA

B76 Communicative strategies and neuropsychological profiles in expressive aphasia: guidelines for rehabilitation
Lenisa Brandão, Julianna Feiden, Magda Aline Bauer, Camila Lenhardt Grigol, Francielle da Silva Freitas, Ingrid Finger; Universidade Federal do Rio Grande do Sul

B77 Examining neurological components of the metaphor interference effect in individuals with and without autism spectrum disorder
Brea Choinard, Joanne Volden, Ivor Cribben, Jacqueline Cummine; University of Alberta

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

B79 Social deficits in ASD are linked with greater task-driven neural synchrony under naturalistic conditions
Kyle M. Jasmin, Stephen J. Gotts, Yisheng Xu, Nuria AbdulSabur, Siyuan Liu, Jordan Ingeholm, Ian W. Eisenberg, Idan Blank, Evelina Fedorenko; MIT, MGH

B80 Brain responses to foreign-language words are diminished in dyslexic children
Sari Ylinen, Katja Junttila, Marja Laasonen, Paul Iversen, Heikki Lyttinen, Teija Kujala; University of Helsinki, Helsinki University Central Hospital, University College London, University of Jyväskylä

B81 Deficient rapid perceptual learning of novel spoken words in dyslexic children
Lilli Kimppa, Petra Suweis, Teija Kujala; University of Helsinki

B82 tDCS to the tempo-parietal cortex produces lasting improvements in nonword reading in adults with developmental dyslexia
Isobel McMillan, Wael El-Deredy, Anna Woomans; The University of Manchester

B83 Comparing Language Outcomes After Stroke in Bilingual and Monolingual Adults
Thomas M.H. Hope, Ötisz Parker Jones, Alice Grogan, Jenny T. Crinion, Johanna Rae, Mohamed L. Seghier, David W. Green, Cathy J. Price; University College London

B84 Multimodal MRI converging evidence underlying the role of the left thalamus in dyslexia
Garkoitz Lerma-Uسابguera, Ileana Quiiones, Cesar Caballero, Myriam Oliver, Jon A. Duriabetita, Manuel Carreiras, Pedro M. Paz-Alonso; Basque Center on Cognition, Brain and Language (BCBL), Donostia-San Sebastián, Spain, KERBASQUE, Basque Foundation for Science, Bilbao, Spain, UPV/EHU, Bilbao, Spain

B85 Abnormal white matter microstructure in children with specific language impairment
Lisa Bruckert, Dorothy V. M. Bishop, Kate E. Watkins; University of Oxford, Oxford 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
Mahwoush Amiri, Philippe Poulou, Frederic Lesage, Yves Joannette, École Polytechnique de Montréal, Faculté de médecine Université de Montréal, Centre de Recherche de l’Institut Universitaire de Gérontie de Montréal, Montreal Heart Institute, CIHR Institute of Aging

C2 Virtual agents as a valid replacement for human partners in sentence processing research
Evelien Hepselaar, Peter Hagoort, Katrien Segaert; Max Planck Institute for Psycholinguistics

C3 Different recovery strategies in sentence processing can be disentangled using coregistered eye movements and brain potentials
Paul Metzner, Titus von der Malsburg, Shrawan Vasisht, Frank Rösler; University of Potsdam, St John’s College, University of Oxford, University of Hamburg

C4 Reliable individual-level neural markers of language activity
Kyle Mahowald, Evelina Fedorenko; Massachusetts Institute of Technology, Massachusetts General Hospital

C5 Between-subject variance in resting-state fMRI connectivity predicts fMRI activation in a language task
Lorijn Zaadnoordijk, Julia Uddén, Annika Hultén, Anne Woollans, Wael El-Deredy, Peter Hagoort, Hubert Fontijn; Radboud University Nijmegen, Donders Institute for Brain, Cognition and Behaviour, Donders Centre for Cognitive Neuroimaging, Nijmegen, Centre for Magnetic Resonance Imaging, Nijmegen, The Netherlands, Max Planck Institute for Psycholinguistics, Nijmegen, The Netherlands

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Auditory Perception, Speech Perception, Audiovisual Integration

C6 Early robust auditory lexical processing revealed by ERPs
Martijn Baart1, Arthur Samuel2,1, Basque Center on Cognition, Brain and Language, Donostia, Spain, 1KERBASQUE, Basque Foundation for Science, 2Dept. 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 Zhao2; 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 Kruteig1,4, Yuriy Shlyrak2,3; 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 Huettig2,1; 1Max Planck Institute for Psycholinguistics, Nijmegen, The Netherlands, 2Donors 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 Kislyuk2, 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 Embrick3, Timothy P. L. Roberts2,3; 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 Boer4; 1University College London, 2Neurology Service, Notre-Dame Hospital, University of London, 3San Diego State University, San Diego, California, U.S.A, 4School of Psychology, University of Queensland, Brisbane, Australia

C13 ERPs and time-frequency analyses reveal dissociable submechanisms in the establishment of relational dependencies between complex auditory objects
Ingmar Brilmayer1, Jana Sassenhagen2, Ina Bornkessel-Schlesewsky1, 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 Vos1,2, Sophie Vanvooren1, Jolijn Vanderauwera3, Pol Ghesquiere4, 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 Moser1, 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 Hickok2; 1University of California, Irvine

C17 Anatomy of motor speech network in frontal temporal dementia
Maria Luisa Mandelli1, Miguel Santos1, Pablo Vitali2, Richard Binney3, Bruce Miller4, William Seeley5, 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 Liljestrom1,2,3, Claire Stevenson4, Jan Kajala1, Riitta Salmelin5; 1Aalto University, 2University of Helsinki, Finland

Orthographic Processing, Writing, Spelling

C21 Revealing the cortical sources of letter string perception.
Laura Guillaume1, Gwyneth Lewis2, Alec Marantz3,2; 1NYUAD Institute, New York University, Abu Dhabi, 2New York University

C22 An ERP Investigation of Orthographic Priming with Superset Primes
Maria Ktori1, Katherine Midgley1, Phillip J. Holcomb2,3, 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 Magnolay1, Joseph Devlin2; 1University College London

C24 The lexicality effect in the left ventral occipito-temporal cortex
Sarah Schuster1, Fabio Richlan1, Stefan Havelka2, 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 Kutas2,3; 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-Schlesewsky2,3, Sarah Tune1, Netanya Lotze4,
Matthias Schlesovsky; 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 Hawelka1, Florian Hutzler2; 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 French-Mestre1, Ronan Cardinal2, Haydee Carrasco3, Jérémy Sampo2; 1Centre National de Recherche Scientifique, 2Aix-Marseille Université, 3Universidad Autónoma de Queretaro

C29 Processing of phonotactic regularities in the lesioned language network. A combined lesion-symptom and ERP approach. Hellmuth Obriq1, Mentzel Julia1, Dreyger Maria1,2, Rossi Sonja1,2; 1Clinic for Cognitive Neurology, University Hospital and Faculty of Medicine Leipzig, Germany, 2Max-Planck-Institute for Human Cognitive and Brain Sciences, Leipzig, Germany

C30 Direct electrophysiological registration of phonological and semantic perception in the human subthalamic nucleus Miet De Letter1, Annelies Aerts1, Sarah Vanhouthe1, John Van Borsele1, Robrecht Raedt1, Leen De Taeye1, Pieter Van Mierlo1, Paul Boon2, Dirk Van Roost1; 1Ghent University, Ghent University Hospital, 2Ghent University, 3Ghent University Hospital, 4Ghent University, 5University of SALzburg

C31 Functional subdivisions in the supramarginal gyrus for phonology and semantics Marion Oberhuber1, Tom M.H. Hope1, Mohamed L. Seghier1, Oiwi Parker Jones1,2, Suz Prejana1, David W. Green1, Cathy J. Price1; 1Wellcome Trust Centre for Neuroimaging, University College London, London, UK, 2Wolform College, University of Oxford, UK, 3Experimental Psychology Research Department, Division of Psychology and Language Sciences, University College London, London

C32 Site-specific modulation of lexicality effects in auditory verbal short-term memory using TMS Nicola Saviill1, Andrew W. Ellis1, Beth Jeffries1; 1University of York, UK

Signed Language

C33 Functional network rewiring from manual gesture to language Eleni Orfanidou1, Cheryl Capek1, Jerker Ronnberg2, Bencie Woll1, Mary Rudner1; 1University College London, 2Linkoping 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 Borgetrom1, Janne von Koss Torkildsen1, Magnus Lindgren1; 1Lund University, Sweden, 2University of Oslo, Norway

C39 L-dopa modulates frontostriatal signalling during encoding of new unfamiliar picture-pseudoword pairings Alicia Radlings1, Katie McMahan1, Anna MacDonald1, Emma Finch1, Peter Silburn1, Matti Laine1, Pradeep Nathan1, David Copland1,2; 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 Linden1,2, David A. Neville1, Marlieke van Kesteren1,2, Jaap Murre1, 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 der Hul1,2, Gabriele Janzen1, James McQueen1; 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 Kasparian1,2, Karsten Steinhauser1,2; 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 Vukovic1, Yury Shtyrov1,2,3; 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 Lehtonen1,2, Janne Pellikka1, Jyrki Mäkelä1, Päivi Helenius1; 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 Faust1; 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, Viania Eng1, Cheryl Frenck-Mestre2, Aaron J. Newman1; 1Dalhousie, 2Centre National de Recherche Scientifique

C47 Effect of Levodopa on Learning New Words with Semantic Attributes David Copland2,3, Alana Campbell1, Alicia Rawlings2,3, Katie McMahan4, Emma Finch5, Peter Silburn4, 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 Allergorical Sayings: An ERP Study Hui Zhang1, Jiejin 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 Gangui Feng1, Saiping Wang1, Qi Chen1, Jian Huang1, Wei Zhang2; 1South China Normal University

C50 “What is Concrete and Abstract and Read All Over!”: An fMRI Study of Polysemes Yuan Tao1, Andrew Anderson1, Massimo Poesio2,3; 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 Jeffries1, Giovanna Mollo1, Andrew Ellis2, Piers Cornellsisen; 1University of York, UK, 2Norumbria University, UK

C52 Context-dependent interpretation of words: MEG evidence for interactive neural processes Giovanna Mollo1, Ellizabeth Jeffries1, Piers Cornellsisen2, Andrew Ellis2, Silvia Genneri1; 1University of York, UK, 2Northumbria University

C53 On the processing ofnegated meanings: A chronometric-TMS study Liuba Papeo1, Jean-Remy Hochmann1; 1Center for Mind/Brain Science (CIMeC), University of Trento, 2Ecole Normale Superieure, 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 Bastaansnen; 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. Willems1,2,3; 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 Hagoort1,2, Roel M. Willems1,2,3; 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 Xia1, Briel Kobok2, Emma Kelsey2, Jacqueline Hazen3, Taylor Katt1, Carla Cabrera4, Siyuan Liu5, Ho Ming Chou1, Mario Belladone6, Joel Kuipers2, Allen Braun1; 1Language Section, NIDCD, NIH, Bethesda MD, 2Department of Anthropology, George Washington University, 3Department of Anthropology, New York University, 4Nebaska Wesleyan University

C60 Neural Adaptability During Sentance Reading: Higher Language Ability but not Semantic Sentence Complexity Increases Neural Activity Helene van Ettinger-Veenstra1,2, Anita McAllister1,2, Peter Lundberg1,2,3,4, Thomas Karlsson1,2, Maria Engström1,2; 1Center for Medical Image Science and Visualization (CIMIV), Linköping, Sweden, 2Linköping University, Linköping, Sweden, 3Karolinska Institutet, Stockholm, Sweden, 4County Council of Östergötland, Linköping, Sweden

C61 Patterns of activation and connectivity in frontline-temporal language networks during sentence processing in patients with schizophrenia: A multimodal imaging investigation Kirsten Weber1,2,3, Ellen Lau1, Ben Stillerman1,2, Arin Choi Perruchione1, Nate Delaney-Busch2, Gina Kasperberg1,2,3; 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, Gisalme Machado Jerônimo1, Bruna Tesseraro1, Irênio Gomes1,2, Carolina Mente1,2, Fernanda Loureiro1,2; 1Pontific 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 Pallier2,3,5, Stanislas Dehaene2,3,4,5, D. H. Wu1, W.-J. Kuo1; 1Institute of neuroscience, National Yang-Ming University, Taipei, Taiwan, 2Cognitive Neuroimaging Unit, INSERM, Gif-sur-Yvette, France, 3CEA, DSV, IIBM, 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, Iliaongli, Taiwan
C64 Impairment in Sentence Comprehension in Patients with the Behavioral Variant of Frontotemporal Degeneration (bvFTD) Rebecca Williams¹, Sherry Ash¹, Katrina Rascovsky¹, Murray Grossman¹; ¹University of Pennsylvania

C65 Structural size matters: ERP signatures of strategies to recover meaning of elliptical sentences Bobby Ruigrok¹,², Crist Cremer²,², Lisa L. Cheng¹,², Niels O. Schiller¹,²; ¹Leiden University Centre for Linguistics, ²Leiden Institute for Brain and Cognition

C66 A meta-analysis on syntactic vs. semantic unification Peter Hagoort¹,², Peter Indefrey¹,²; 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 Euiyoun Cho¹, Wonil Chung¹; ¹Dongguk University

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

C69 The middle temporal and inferior parietal cortex contributions to inferior frontal unification across complex sentences Julia Udden¹,², Amnika Halteri¹,², Hubert Fotempietji¹,², Karl Magnus Petersson¹,², Peter Hagoort¹,²; ¹Max Planck Institute for Psycholinguistics, Nijmegen, 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 Gansonne¹; ¹University of Oxford

C71 Overlap and segregation in activation for syntax and semantics: a meta-analysis of 13 fMRI studies Hubert Fotempietji¹,², Dan Acheson¹,², Karl-Magnus Petersson¹,², Katrien Segacert¹,², Timene Snijders¹,², Julia Udden¹,², Roel Willems¹,², Peter Hagoort¹,²; ¹Max Planck Institute for Psycholinguistics, Nijmegen, ²Radboud University Nijmegen, Donders Institute for Brain, Cognition and Behaviour, Donders Centre for Cognitive Neuroimaging, Nijmegen, The Netherlands

C72 Event Roles and Temporal Structure: Electrophysiological correlates of grammatical verb aspect processing Carol Madden Lombardi¹,²,³, Michel Hoën¹,²,³, Léo Varnet¹,²,³, Anne Lise Jouen¹,²,³, Peter Ford Dominey¹,²,³; 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 Lill², Lisa Schiffer²; 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

Language Disorders

C74 Evidence for domain general error detection in speech Hanna Gauvin¹, Wouter De Baene², Marcel Brass³, Robert Hartsuiker; ¹Ghent University

C75 Locus of Stroop-like effects in color and picture naming: Evidence from electrophysiology Natalia Shitolov¹, Ardi Roelofs², Herbert Schriefers³, Marcel Bastiaansen³, Jan-Mathijs Schoffelen¹,²; 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 Acheson¹,², Peter Hagoort¹,²; 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 Iyer¹, Thomas Thesen¹, Daniel Friedman¹, Werner Doyle¹, Orrin Devinsky¹, 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

C79 Can non-invasive brain stimulation increase fluency in people who stutter? Jennifer Chesters¹, Kate E. Watkins¹, Riikka Mötönen¹; ¹Department of Experimental Psychology, University of Oxford, UK

C80 Altered activity in language-related left fronto-temporo-parietal network in aphasic stroke. Fatemeh Geramannajeh¹, Robert Leech², Richard J.S. Wise³; ¹Computational, Cognitive and Clinical Neuroimaging Laboratory. Imperial College London, 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, Sigríður Magnúsdóttir², Chris Rorden¹, Julius Fridriksson³; ¹University of South Carolina, Columbia, SC, USA, ²Landsbitali-University Hospital, Reykjavik, Iceland

C82 Right hemisphere lesion sites that result in speech production and comprehension difficulties Andrea Cajarado-Vidal¹,², Mohamed L. Seghier³, Thomas M. H. Hope¹, Susan Frejaun¹, Alex P. Leff¹, Cathy J. Price¹; ¹Wellcome Trust Centre for Neuroimaging, University College London, London, UK, ²Institute of Cognitive Neuroscience, University College London, 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
## Poster Session D

### Gesture, Prosody, Social and Emotional Processes

**D1** When reality and beliefs differ: oxytocin biases communicative choices towards reality  
Miriam de Boer,1, Idil Kakal,2, Mark Blokpoel,3 Arjen Stolk,4 Karin Koelofs,5,6 Iris van Rooij,1,2  
Radboud University Nijmegen, 1Donders Institute for Brain, Cognition and Behaviour, Nijmegen, The Netherlands, 2Max Planck Institute for Psycholinguistics, Nijmegen, The Netherlands, 3Radboud University Nijmegen, 4Centre for Language and Communication, VU University Amsterdam, 5Department of Psychology, University of Nijmegen, 6Catholic University of Nijmegen.

**D2** Beat gestures modulate the processing focused and non-focused words in context  
Diana Dimitrova,1,2 Mingyan Chu,1,2 Lin Wang,1,2 Asli Ozürek,1,2 Peter Hagoort,1,3  
1Donders 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

**D3** Taking the listener into account: Computing common ground requires mentalising  
Flora Vanlangendonck,1,2 Roel M. Willems,3,4 Peter Hagoort,1,3  
1Donders Institute for Brain, Cognition and Behaviour, Nijmegen, The Netherlands, 2Radboud University Nijmegen, 3Max Planck Institute for Psycholinguistics, Nijmegen, The Netherlands, 4International Max Planck Research School for Language Sciences, Nijmegen, The Netherlands, 5Max Planck Institute for Psycholinguistics, Nijmegen, The Netherlands

**D4** Behavioral and Neurophysiological Correlates of Communicative Intent in the Production of Pointing Gestures  
David Peeters,1 Mingyan Chu,1 Judith Holler,1 Peter Hagoort,1,3 Asli Ozürek,1,2  
1Max Planck Institute for Psycholinguistics, Nijmegen, The Netherlands, 2Radboud University, Donders Institute for Brain, Cognition and Behaviour, Nijmegen, The Netherlands, 3Max Planck Institute for Psycholinguistics, Nijmegen, The Netherlands

**D5** Pointing kinematics: how communicative knowledge influences motor behavior  
Anke Murillo Oosterwijk,1,2 Arjen Stolk,1 Miriam de Boer,1,3 Frank Hartmann,1,2 Ivan Toni,1 Lennart Verhagen,1,2  
1Radboud University Nijmegen, 2Donders Institute for Brain, Cognition and Behaviour, Nijmegen, The Netherlands, 3erasmus University Rotterdam, erasmus research Institute of Management, Accounting, the Netherlands, 4University of Oxford, Department of Experimental Psychology, United Kingdom

### Auditory Perception, Speech Perception, Audiovisual Integration

**D7** Inside speech: neural correlates of audio-lingual speech perception  
Avril Treille,1 Coriandre Vilain,1 Thomas Hueber,2 Jean-Luc Schwartz,3 Laurent Lamalle,2 Marc Sato,2  
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 Skipper,1 Alexandre Arenson, Charlotte Cosgrove, Jane Hannon,1 University College London, 2Hamilton College, 3Hamilton College, Hamilton College

**D9** Listening to natural speech: effects of auditory stimulus rhythmicity and content on MEG power spectra  
Anna Maria Alexandrou,2 Timo Saarinen,2 Jan Kuja,1,2 Riitta Salminen,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 Towle,1 G. Kavya Minamana Reddy,2 Zhongtian Dai,2 Wei Li Zheng,1 David Brang,3 Scott Hunter3, Michael H. Kohrman1, Charles J. Marcuccilli1, James X. Tao,1 Marvin A. Rossi3, David M. Frim1, Richard W. Byrne1  
1The University of Chicago, 2Northwestern University, 3Rush University

**D11** Confronting functional and neural models of speech comprehension and production  
Lou Boves,1 Mirjam Ernestus,1 Louis ten Bosch,1  
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  
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 Schödl,2 Claudia K. Friedrich,1  
1University of Tuebingen, 2University of Mannheim

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

**D15** Abstract linguistic rules are detected early in processing  
Jülia Monte-Ordono,1 Juan M. Toro,2  
1Universitat Pompeu Fabra, 2ICREA
D16 Neural correlates of acoustic and linguistic contributions to listening effort during speech comprehension

D17 Musical consonance modulates rule learning
Paola Crespo-Bojorque, Juan M. Toro; 1Universitat Pompeu Fabra, 2ICREA

D18 Prosody provides cues to morphosyntactic structure: an EEG-fMRI study of neural networks subserving Swedish word tone processing
Pelle Soderstrom, Merle Horne, Peter Mannfolk, Yury Shtrygrov, Mikael Johansson, Mikael Roll; 1Lund University, 2Aarhus University

D20 Dynamics of response planning in word typing
Soetlana Pinet, Carlos Hamame, Marike Longcamp, Francik Vidal; 1Aix-Marseille University, CNRS

D22 Time course of phonological encoding in Cantonese di- syllabic word production: An ERP study
Andus Wing-Kuen Wong, Ning Ning, Hezul Ng, Jian Huang, Hsuan-Chih Chen; 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. Johnson, Jason W. Bohland; 1Boston University, Boston, MA USA

D25 Mapping left hemisphere language networks by navigated TMS: a psycholinguistic parametric modulation approach
Noriko Tamigawa, Sandro M. Krieg, Phiroz E. Tarapore, John Houde, Srikanth Nagarajan; 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, Alma Veenastra, Antje Meyer, Peter Hagoort; 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, Ferdi van de Kamp, Johanneske Caspers, Niels O. Schiller; 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 Burgaleta, Ana Sanjuani, Noelia Ventura, Nuria Sebastian-Galles, Cesar Avila; 1Universitat Pompeu Fabra, 2Jaume I University, 3University College of London

D29 Age effects in L2 grammar processing and how (not) to study them
Nienke Meulman, Martijn Wieling, Simone A. Springer, Laurie A. Stone, Monika S. Schmidt; 1University of Groningen, 2University of Utrecht, 3University of Essex

D30 Assessing language lateralisation in preschoolers using functional transcranial Doppler sonography
Heather Payne, Bencie Wolf, Mairread MacSweeney; 1Institute of Cognitive Neuroscience, University College London, 2Department of Finance and Communication Sciences and Disorders, Faculty of Rehabilitation Medicine, University of Alberta, Canada, 33. Department of Finance and Statistical Analysis, University of Alberta, Canada

D31 Temporal Dynamics of EEG Topographic Similarity during Successful Language Learning
Zhenghua Qi, Amy Finn, Satrajit Ghosh, Jennifer Minas, Brian Chan, John Gabrieli; 1Massachusetts Institute of Technology

D32 The role of expertise in simultaneous interpreting: an fMRI study
Hyoeonjeong Jeong, Keiko Tatsunami, Motosuki Sugiuira, Hiroshi Hashizume, Wataru Suzuki, Ryuta Kawashima; 1Department of Functional Brain Imaging, IDAC, Tohoku University, 2Division of Developmental Cognitive Neuroscience, IDAC, Tohoku University, 3Department of English Education, Miyagi University of Education

D33 Optimizing word learning via sensorimotor information
Lea Hald, Marianne van den Hurk, Harold Bekkering; 1Radboud University Nijmegen

D34 Inhibitory control mechanisms of bilinguals in language production
Eve Van Assele, Wouter Duyck, Tammar H. Gollan; 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 Hartsell, Ben Davis, David Melcher, Gabriele
Miccili1, Jorge Jovicich7, Tanmay Nath2, Nandini Chaterjee Single1, 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 1-Fan Su1, Hiu-Ching Sar1, Lok-Lan Chu1; 2The University of Hong Kong

Language Development, Plasticity, Multilingualism

D37 Assimilation and accommodation in non-native reading networks: Evidence from Korean-Chinese-English multilinguals 1-Say Young Kim1, Fan Sar2; 1Sogang 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 Kronbichler1, 1University of Salzburg, 2Paracelsus Medical University

D39 Masked language switch cost effects: now you see them, now you don’t 1-Aina Casasponsa1, Eneko Antón1, Manuel Carreiras2, 1Basque Centre on Cognition, Brain and Language, 2Kebasque, Basque Foundation for Science, University of the Basque Country EHU/UPV

D40 Neural Systems for Reading Chinese Character: A Multiparametric Approach Jianfeng Yang1, Xiaojuan Wang1, Hua Shu1, Jason D. Zevin1; 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 1-Xiaojuan Wang1, Jianfeng Yang1, Jason D. Zevin1, Hua Shu1; 1School of Psychology, Shaanxi Normal University, Xi’an, China, 2State Key laboratory of Cognitive Neuroscience and Learning, Beijing Normal University, Beijing, China

D42 Brain activation during novel word encoding predicts lexical integration Iske Bakker1, 1University of Amsterdam, 2University of Tokyo

D43 Neural Correlates of Emerging Readers in L2: A Bidirectional Approach Using Hebrew and English Daniel Sharot1, W. Einar Menc1,2, Jay Reuck1,2, Peter J. Molfese1, Steve Frost1, Ram Frost1, Julie Van Dyke1, Kenneth R. Puglisi1, 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; 2Stanford University

Lexical Semantics

D45 Learning the meaning of words: a neurocomputational account of semantic category-specificity and semantic hubs Max Caragouni1,2, 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 Anamda Garcia1, Jinji Hung1, Jamie Reilly1, 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; 2National Taiwan University

D49 Measures of white matter integrity explain age-related differences in non-verbal fluid intelligence Michele T. Diaz1,2, Micah A. Johnson1, Deborah M. Burke1, David J. Madden1; 1Duke University School of Medicine, 2Pennsylvania State University, 3Pomona College

D50 Individual variability in a cortical semantic hub Michael Bonner1, Jonathan Peele2, 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 Rodriguez1,2, Joe Nocera1,4, Benjamin Fox1, David MacDonald1, David Copland1; 1NHMRC CCRE 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 Leminen1, 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 Tremblay1, Edith Durand1-2, Karine Marcotte1-2, Ana Inés Ansald12; 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 TDIC 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. Dreger1, Dietmar Frey1, 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 Bi, Yuxing Fang, Sunny Zhang, Gaolong Gong, Luping Song, ZaiZhi Han; 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 Börgels1, Lilla Magyari1, Stephen Levinson1,2; 1Max Planck Institute for Psycholinguistics, 2Donders Institute for Brain, Cognition, and Behaviour

D62 Overlap between Language processing areas and sensory-motor maps
Mariann Soold, Martin. I. Sereno1,2; 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 Swet1, Nuria Abdulshakurab1, Michael Erkkinen1, Raymond Mar1, 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. Helland2,3, Frøydis Morken1, Turid Helland1,2,3; 4University of Oslo, 1University of Bergen, 2Helse Fonna, 3University of Tromsø, 4Statped Vest

Syntax, Morphology
D66 Priming of transparent derived verbs in L2 speakers: An fMRI study
Sophie De Grauwe1, Kristin Lemhöfer1, Roel M. Willems1,2, Herbert Schriefers1; 1Max Planck Institute for Psycholinguistics, 2Donders Institute for Brain, Cognition, and Behaviour

D67 Activation modulation in the left inferior frontal gyrus caused by scrambled word orders: An fMRI study in Kaqchikel Maya
Shunri Ohta1,2, Masatoshi Koizumi3, Kuniyoshi L. Sakai1,2,3; 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. Stone1, Monika S. Schmid1,2; 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 Valibert1, Monique Flecken1; 1Radboud University Nijmegen, 2Donders Institute for Brain Cognition and Behaviour, Radboud University Nijmegen

D69 How does the old support the new? The role of memory consolidation in learning novel morphological forms
Jelena Mirković1, Gareth Gaskell1; 1University of York

D71 Linguistic Rule Representation in the Bilingual Brain
Roy See1, Andrea Stocco1,2, Jose Ceballos3, Chantal Pratt1,2; 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, Natália Resende1, Aline Gesualdi Mandantes2; 1Federal University of Santa Catarina, Brazil, 2Federal Center for Technological Education, Brazil

Language Disorders
D74 Communicative strategies and discourse processing in Alzheimer's disease
Gislaíne Machado Jerónimo1, Bruna Tesser1, 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, Marsei Mesulam1, Cynthia Thompson1; 1Northwestern University

D76 The predictability effect on N400 reflects aging and the severity of reading comprehension deficits in aphasics
Chih-ting Chang1,2, Hsin-Chi Wu1,2, Chia-Ju Chou1,2, Jong-Ling Fu1,3, Chia-Ying Lee1,2; 1National Yang-Ming University, Taiwan, 2Academia Sinica, Taiwan, 3Taipei Tzu Chi General Hospital, Taiwan, 4Tzu Chi University, Taipei, 5Taipei Veterans General Hospital, Taiwan

D77 The Effect of Semantic Constraint and Cloze Probability on Chinese Classifier-Noun Agreement in Aphasia
Chia-Ju Chou1,2, Hsin-Chi Wu1,2, Chih-Ting Chang1,2, Jong-Ling Fu1,3, Chia-Ying Lee1,2; 1National Yang-Ming University, Taiwan, 2Academia Sinica, Taiwan, 3Tzu Chi University, Taiwan, 4Tzu Chi University, Taipei, 5Taipei Veterans General Hospital, Taiwan

D78 Resting connectivity within the Broca’s homolog relates to poor word reading in aphasic patients with left-hemisphere stroke
Laura Skipper1, Elizabeth H. Lacey1,2, Shihui Fang1, Alexa Desko1, Mackenzie Fana1, Xiong Jiang1, Peter E. Turkeltaub1,2; 1Georgetown University Medical Center, 2MedStar National Rehabilitation Hospital

D79 Neural circuitry underlying distinct types of verb naming errors in aphasia
Maria Ivanova1, Olga Dragey1, Rosa Vlasova1, Elena Kozintseva2, Yulia Akinina1, Svetlana Malysutina2, Alexey Petrushevsky1, Oksana Fedina2, Eugene Gutyrchik1; 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
Khang Winn1,2, John Plotz1, Paul Yuskevitch1, David Wolf3, Murray Grossman1,2; 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 Rofes1,2,3, Barbara Santini2, Pasquale Mirtomo3, 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 Rancero1, Howard Cherktold2; 1Lady Davis Institute, Jewish General Hospital, McGill University Health Network

D83 Surface dyslexia is more prominent in semantic variant primary progressive aphasia with left-pre-dominant than with right-pre-dominant temporal lobe atrophy  
Richard Binney1, Mya Henry2, Miranda Babiak3, Maria Luisa Gorno Tempini1,2; 1University of California, San Francisco, 2University of Texas, Austin

D84 Abbreviated Pyramids and Pals Trees Test Effectively Discriminates Semantic-Variant Progressive Aphasia From Other Variants of Primary Progressive Aphasia  
Kara Cohen1, Corey Mcmillan1, Katya Rascovsky1, Chiadi Orejke,1 Virginia M.-Y. Lee2, John Q. Trojanowski1, Argye Hillis2,3; 1University of Pennsylvania, 2Johns Hopkins University, 3University of Science and Technology, 4Center of Functionally Integrative Neuroscience, Aarhus University, 5Center for Seniomics, Aarhus University

D85 Using TMS to Predict Language Outcome after Stroke  
Diego L. Lorce-Pals1, Joseph T. Devlin1, Mohamed L. Seghi2, 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 Luniiewska1, Anna Banaszekiewicz1,2, Katarzyna Chyi3, Agnieszka Dębska2, 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  
Cheng-I Erica Su1,2, 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. Roberts2, Allison Wetterlin1, Aditi Lahiri1; 1University of Oxford

E6 Cross-linguistic differences in automatic perception of allophonic vowel duration  
Adam Roberts1, Sandra Kotzor, 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 Nielsen1, Line Gebauer2, William B. McGregor3, Mikkel Wallentin1,2; 1Center of Functionally Integrative Neuroscience, Aarhus University, 2Interacting Minds Centre, Aarhus University, 3Center for Semiotics, Aarhus University

E8 Online processing of co-articulated information in words and pseudowords  
Ulrike Schild1, Claudia Teichner2, Claudia K. Friedrich1; 1University of Tübingen, 2University of Hamburg

E9 Identification of functional acoustic cues involved in speech perception: recent advances using Auditory Classification Images.  
Léo Varnet1, Willy Serniclaes2, Kenneth Knoblaich3, Fanny Meunier1, Michel HoentJ; 1Lyon Neuroscience Research Center, CNRS UMR 5292, Auditory Language Processing (ALP) research group, Lyon, France, 2Université Libre de Bruxelles, UNESCOG, CP191 Bruxelles, Belgique, 3Stem Cell and Brain Research Institute, INSERM U 846, Integrative Neuroscience Department, Bron, France, 4Laboratoire sur le Langage le Cerveau et la Cognition, CNRS UMR 5304, Auditory Language Processing (ALP) research group, Lyon, France, 5Université de Lyon, Université Lyon 1, Lyon, France

E10 How does musical expertise shape speech perception? Visual evidence from Auditory Classification Images.  
Tianyuan Wang1, Léo Varnet1,3, Chloé Peter1, Gustavo Estivalet1, Fanny Meunier1, Michel HoentJ; 1Lyon Neuroscience Research Center, CNRS UMR 5292, Auditory Language Processing (ALP) research group, Lyon, France, 2Laboratoire sur le Langage le Cerveau et la Cognition, CNRS UMR 5304, Auditory Language Processing (ALP) research group, Lyon, France, 3Univrsité de Lyon, Université Lyon 1, Lyon, France

E11 Asymmetric processing of word accent in Norwegian  
Allison Wetterlin1, Adam C Roberts2, Sandra Kotzor1, Jacques Korenman1, Aditi Lahiri1; 1University of Oxford, 2Norwegian University of Science and Technology

E12 Adult listeners handle speaker and dialect variation differently: evidence from an ERP study  
Roznin Dadivan1, Katerina Chiladkow1, Andrea Geaambas2, Varghese P2, Paola Escudero1; 1University of Western Sydney, Australia, 2University of Amsterdam, The Netherlands, 3Leiden University, The Netherlands

E13 Repetition attenuation and stimulus specificity in long-latency auditory evoked responses to vowels  
Daniel Márcio Silva1, Rui Rothe-Nenes1, Daniilo Melges2; 1Federal University of Minas Gerais, 2Federal University of Minas Gerais, 3Federal University of Minas Gerais
Motor Control, Speech Production, Sensorimotor Integration

E14  Motor and somatosensory adaptation during overt and imagined orofacial and speech actions
Marc Sato1, Coriandre Vilain1, Laurent Lamalle2, Krystyna Grabski2; 1GIPSA-lab, Département Parole & Cognition, CNRS & Grenoble Université, Grenoble, France, 2Inserm U607/UMS IRMaGE, Université Grenoble-Alpes et CHU de Grenoble / CNRS UMS 3552, Unité IRM 3'Terre Recherche, Grenoble, France, 3Montreal Neurological Institute, McGill University, Montreal, Canada

E15  Lexical-perceptual influences on sensorymotor adaptation in speech
Douglas Shiller1,2,3, Nicolas Bourguignon1,2; 1School of Speech-Language Pathology and Audiology, Université de Montréal, 2Research centre, CHU Sainte-Justine, Université de Montréal, 3Centre for Research on Brain, Language & Music, McGill University

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