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Journal of the UK Cognitive Linguistics Association
Welcome to SNL 2013, San Diego, California

Welcome to the 5th Annual Meeting of the Society for the Neurobiology of Language. You may have noticed that this year the meeting, formerly known as the Neurobiology of Language Conference, has been officially renamed to recognize the continued growth and vitality of SNL as an independent society. SNL in turn reflects the dramatic growth in neurobiological research on basic language mechanisms that has occurred over the past few decades, and the need for an organization dedicated to sharing and integrating this knowledge. SNL is indebted to Steve Small and Pascale Tremblay, who presciently recognized this need and organized the first NLC in 2009. The results were overwhelmingly positive, and SNL became a non-profit incorporated entity in 2010. Membership continues to grow, this year reaching nearly 600. For this year’s meeting there were 382 abstract submissions, a 30% increase over last year.

As our fledgling society continues to develop, we need your input to ensure that the meeting is what you want it to be. A major change requested by attendees and instituted this year is an increase in the length of the meeting to two and a half days. This has allowed additional poster and slide sessions and a third keynote address. Following the success of last year’s meeting in San Sebastián and favorable input from the membership, the SNL Board has decided to continue the pattern of alternating meetings between North America and Europe. Membership feedback has had a profound impact on the content of this year’s meeting, and content of the keynote addresses and debate sessions is a topic of ongoing active discussion. Please attend the open business meeting on Wednesday at 5:45 pm to discuss these and other issues concerning the future of SNL.

Organizing the SNL annual meeting is a huge undertaking, made possible by the combined work of the Board of Directors, the Program Committee, the Nominating Committee, Society Officers, and our meeting planner, Shauney Wilson. Please join me in expressing a sincere thanks to them all. Thanks are also due once again to Steve Small and Greg Hickok for securing support from the NIDCD in the form of an education grant, and to the NIDCD for this award. A profound thank you also goes to the many abstract reviewers who generously gave their time to ensure a high quality of scientific content at the poster and slide sessions.

Finally, the Board thanks all SNL members and meeting attendees for making the Society possible. It goes without saying that you are the reason SNL was formed and will flourish. Please join as a member if you haven’t done so, please nominate officers and vote for them, and please submit abstracts for posters and talks. Word of mouth is the best advertising, and we appreciate your spreading the news. SNL is for you, and it will be what you make it.

On behalf of the SNL Board, welcome to San Diego! We hope you have an inspiring and rewarding meeting.

Jeff Binder
Chair, Society for the Neurobiology of Language

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SNL 2013 Review Committee

Jubin Abutalebi  
Daniel Acheson  
Patti Adank  
Amit Almor  
Lisa Aziz-Zadeh  
Juliana Baldo  
Shari Baum  
Michael Beauchamp  
Pascal Belin  
Alexandra Bendixen  
Madison Berl  
Tali Bitan  
Sheila Blumstein  
DJ Bolger  
Ina Bornkessel-Schlesewsky  
Heather Bortfeld  
Mirjana Bozic  
Jonathan Brennan  
Sonia Brownsett  
Bradley Buchsbaum  
Laurel Buxbaum  
Pablo Campo  
Stefano Cappa  
Manuel Carreiras  
Edward Chang  
Anjan Chatterjee  
Christine Chiarello  
Lisa Conant  
David Corina  
H. Branch Coslett  
Seana Coulson  
Sarah Creel  
Ruth de Diego-Balaguer  
Greig de Zubicaray  
Ghislaine Dehaene-Lambertz  
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Rutvik Desai  
Joe Devlin  
Michele Diaz  
Fred Dick  
Anthony Dick  
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Julia Evans  
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Evelina Fedorenko  
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Fernanda Ferreira  
Vic Ferreira  
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Robert Fiorentino  
Gwen Frishkoff  
Alison Gabriele  
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Murray Grossman  
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Peter Indefrey  
Marc Joanisse  
Ingrid Johnsruide  
Irene Kan  
Al Kim  
Denise Klein  
Pia Knoefele  
Sonja Kots  
Dorothee Kuemmerer  
Gina Kuperberg  
Marta Kutas  
Vicky Lai  
Matthew Lambon-Ralph  
Ellen Lau  

Adrian Lee  
Christiana Leonard  
Eiat Liebenthal  
Frederique Liegeois  
Mia Liljestrom  
Angelika Lingnau  
Gary Lupyan  
Mairead MacSweeney  
Brad Mahon  
Alec Marantz  
Karine Marcotte  
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Maria Mody  
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Emily Myers  
Srikant Nagarajan  
Mante Nieuwland  
Caroline Niziol  
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Howard Nusbaum  
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Liina Pylkkanen  
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Fabio Richlan  
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Sonja Rossi  
Jay Rueckl  
Daniela Sammler  
Ana Sanjuan  
Andrea Santi  

Katharina Sass  
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Niels Schiller  
Matthias Schlesewsky  
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Katrien Segaert  
Mohamed Seghier  
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Tamara Swaab  
Diane Swick  
Marcin Szwed  
Li-Hai Tan  
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Marco Tettamanti  
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Malathi Thothathiri  
Pascale Tremblay  
John Trueswell  
Peter Turkeltaub  
And Turken  
Lorraine Tyler  
Julia Udden  
Taiji Ueno  
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Rik Vandenbegahe  
Jennifer Vannest  
Jonathan Venezia  
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Jane Warren  
Kate Watkins  
Nicole Wicha  
Roel Willems  
Stephen Wilson  
Zoe Woodhead  
Anna Woollams  
Ying Wu  
Ming Xiang  
Jie Yang  
Robert Zatorre
SNL Directors and Committees

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Medical College of Wisconsin, US

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Max Planck Institute for Psycholinguistics,
Nijmegen, Netherlands

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University of California, San Diego, US

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Basque Center on Cognition, Brain and Language,
San Sebastián, Spain

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California, Irvine, US

Murray Grossman, M.D., Ed.D., Penn FTD Center,
University of Pennsylvania, US

Sonja Kotz, Ph.D., Max Planck Institute, Germany

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Peter Hagoort, Max Planck Institute for Psycholinguistics,
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Greg Hickok, University of California, Irvine, US

Ellen Lau, Ph.D., Massachusetts General Hospital and
Tufts University, US

Steven L. Small, Ph.D., M.D., University of California,
Irvine, US

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 2014
August 27-29, 2014
Beurs van Berlage
Amsterdam
Schedule of Events

All events are held at the Westin San Diego.

**Wednesday, November 6th**

11:00 am – 5:30 pm  
Pre-Registration Check-in and Onsite Registration  
*Ballroom Foyer*

1:00 – 1:30 pm  
Opening Remarks - Jeff Binder, SNL President and Marta Kutas, SNL Past President  
*Crystal Ballroom*

1:30 – 2:30 pm  
**Keynote Lecture - Janet F. Werker**  
The Elizabeth Bates Memorial Lecture: Initial Biases and Experiential Influences on Infant Speech Perception Development  
*Crystal Ballroom*

2:30 – 3:00 pm  
Coffee Break  
*Emerald Ballroom*

2:30 – 4:30 pm  
Poster Session A  
*Emerald Ballroom*

4:30 - 5:00 pm  
Slide Session A – Speech and Auditory Perception  
*Crystal Ballroom*

5:00 – 6:20 pm  
Business Meeting  
*Crystal Ballroom*

6:20 – 7:00 pm  
Welcome Reception  
*Pool Deck*

**Thursday, November 7th**

7:30 am – 7:00 pm  
Pre-Registration Check-In and Onsite Registration  
*Ballroom Foyer*

8:00 - 8:30 am  
Continental Breakfast  
*Ballroom Foyer*

8:30 – 9:50 am  
Slide Session B – Speech Production and Phonology  
*Crystal Ballroom*

9:50 - 10:20 am  
Coffee Break  
*Emerald Ballroom*

9:50 – 11:50 am  
Poster Session B  
*Emerald Ballroom*

11:50 am – 1:15 pm  
Lunch Break (Lunch on your own)

1:15 – 2:35 pm  
Slide Session E - Lexical-Sentential Cognitive Control  
*Crystal Ballroom*

2:45 – 4:15 pm  
**Discussion Panel - Miriam Faust vs Alexander M. Rapp**  
The Role of the Right Hemisphere in Figurative Language Processing  
*Crystal Ballroom*

4:15 – 4:45 pm  
Coffee Break  
*Emerald Ballroom*

4:15 - 6:15 pm  
Poster Session E  
*Emerald Ballroom*

6:15 – 7:15 pm  
**Keynote Lecture – Robert Knight**  
Language Viewed from Direct Cortical Recordings  
*Crystal Ballroom*

6:15 – 7:15 pm  
Closing Remarks - Peter Hagoort, SNL President Elect  
*Crystal Ballroom*

**Friday, November 8th**

7:30 am – 7:00 pm  
Pre-Registration Check-In and Onsite Registration  
*Ballroom Foyer*

8:00 - 8:30 am  
Continental Breakfast  
*Ballroom Foyer*

8:30 – 9:50 am  
Slide Session D – Lexical Semantics  
*Crystal Ballroom*

9:50 - 10:20 am  
Coffee Break  
*Emerald Ballroom*

9:50 – 11:50 am  
Poster Session D  
*Emerald Ballroom*

11:50 am – 1:15 pm  
Lunch Break (Lunch on your own)

1:15 – 2:35 pm  
Slide Session E - Lexical-Sentential Cognitive Control  
*Crystal Ballroom*

2:45 – 4:15 pm  
**Discussion Panel - Miriam Faust vs Alexander M. Rapp**  
The Role of the Right Hemisphere in Figurative Language Processing  
*Crystal Ballroom*

4:15 – 4:45 pm  
Coffee Break  
*Emerald Ballroom*

4:15 - 6:15 pm  
Poster Session E  
*Emerald Ballroom*

6:15 – 7:15 pm  
**Keynote Lecture – Robert Knight**  
Language Viewed from Direct Cortical Recordings  
*Crystal Ballroom*

7:15 – 7:30 pm  
Closing Remarks - Peter Hagoort, SNL President Elect  
*Crystal Ballroom*
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

Anna Beres, Bangor University, UK
Sung-Joo Lim, Carnegie Mellon University, US
Alicia Rawling, Centre for Clinical Research, University of Queensland, Herston, Australia

Post Doctoral Merit Award Winners

Adeen Flinker, New York University, US
Tineke M. Snijders, Radboud University, Nijmegen, Netherlands

Travel Awards

This year, the Society for the Neurobiology of Language granted twenty Travel Awards. The awards, funded by the National Institutes of Health (NIH), help to cover travel and registration costs for the 2013 Society for the Neurobiology of Language Meeting in San Diego, US. Through the travel awards, SNL aims to encourage and foster the participation of junior scientists who are members of underrepresented groups.

The 2013 Travel Awards were given to:

Anna Beres, Bangor University, UK
Teon Brooks, New York University, US
Emily Connally, University of Oxford, UK
Isabelle Deschamps, Université Laval, Canada
Mandy Faretta-Stuttenberg, University of Illinois at Chicago, US
Alona Fyshe, Carnegie Mellon University, US
Sharon Geva, University College London, UK
Ajay Halai, University of Manchester, UK
Amanda Jaimes Bautista, Instituto Nacional de Neurología y Neurocirugía de México
Fernanda Loureiro, Pontifical Catholic University of Rio Grande do Sul (PUCRS), Brazil
Catherine Norise, University of Pennsylvania, US
Oiwi Parker Jones, University College London, UK
Angel Ramirez-Sarmiento, University of Delaware, US
Aurora I. Ramos Nuñez, University of Houston, US
Laura Skipper, Temple University, US
Bethany Sussman, Indiana University, US
Maryse Thomas, McGill University, Montreal, Canada
Rubén Torres Agustín, University of Mexico, Mexico
Jorge Valdes Kroff, University of Pennsylvania, US
Khaing Win, University of Pennsylvania, US
Keynote Lectures

The Elizabeth Bates Memorial Lecture

INITIAL BIASES AND EXPERIENTIAL INFLUENCES ON INFANT SPEECH PERCEPTION DEVELOPMENT

Wednesday, November 6, 1:30 – 2:30 pm, Crystal Ballroom

Chair: Marta Kutas, University of California, San Diego, US

Janet F. Werker
Department of Psychology, University of British Columbia, Canada

Language involves a cascading interplay between biology and experience. Initial perceptual biases and core neural systems support learning any natural language. Development begins by tuning these systems to the native language. In this talk, I will review the rapid changes in auditory, visual, and multimodal speech perception that occur in the first months of life as infants establish a foundation for language acquisition. I will then present evidence that, while under typical circumstances the timing of perceptual attunement seems to be constrained by maturation, there are identifiable variations in experiences that can accelerate or slow down this developmental trajectory. Finally, I will introduce new questions about whether studies to date on the timing of plasticity have considered all the relevant input systems. The implications of this work for a fuller understanding of the neurobiology of language development will be highlighted.

In my talk, I’ll present new data on MR-visible tracers and esfMRI that show the capacity of these methods for the study of the organization of cortical microcircuits and effective connectivity. I shall also show first results from studies mapping network topologies by triggering imaging at structure-specific events, e.g. hippocampal ripples or cross-frequency coupling events.

THE DYNAMIC BRAIN

Thursday, November 7, 1:15 – 2:15 pm, Crystal Ballroom

Chair: Joe Devlin, University College London, UK

Terry Sejnowski
Howard Hughes Medical Institute, The Salk Institute for Biological Studies, and University of California, San Diego, US

Brains need to make quick sense of massive amounts of ambiguous information with minimal energy costs and have evolved an intriguing mixture of analog and digital mechanisms to allow this efficiency. Spike coincidences occur when neurons fire together at nearly the same time. In the visual system, rare spike coincidences can be used efficiently to represent important visual events in the early stages of visual processing. This can be implemented with analog VLSI technology, creating a new class of cameras.
LANGUAGE VIEWED FROM DIRECT CortICAL RECORDINGS

Friday, November 8, 6:15 – 7:15 pm, Crystal Ballroom

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

Robert Knight
University of California, Berkeley
and the Helen Wills Neuroscience Institute

Since the 1920’s, neurophysiological dogma suggested that the human cortex did not generate neural oscillations above 50-60 Hz. However, research in the last decade reports neural activity up to 250 Hz in the human neocortex in multiple tasks. Indeed, every cognitive process examined including language, attention, perception, memory and motor control generates high frequency oscillatory activity in the range of 70-250 Hz (high gamma, HG). For instance, the HG response in the human electrocorticogram (ECoG) precisely tracks auditory processing in the neocortex and can be used to assess sound, phoneme and word representation as well as the flow of information during linguistic processing. We have used ECoG recordings to address the neural mechanisms of speech suppression, categorical representation and the timing of speech perception and production in peri-sylvian language regions. Importantly, the high gamma response provides a potential tool for development of neural prosthesis for disabling language deficits and work on speech reconstruction and imagined speech will also be reviewed.
Max Coltheart  
Centre for Cognition and its Disorders at Macquarie University, Australia  

I will consider evidence from cognitive neuropsychology, computational modelling and experimental psychology which I take to support the view that there are distinct lexical and nonlexical routes from print to speech that subserve reading aloud, and that within the lexical reading route one can distinguish a lexical but nonsemantic processing route (direct communication from visual word recognition to spoken word production) and a lexical-semantic processing route (communication from visual word recognition to the semantic system followed by communication from the semantic system to spoken word production). According to this framework, any word can be read aloud without any contribution from the lexical-semantic processing route, so the question of the role that semantic information actually plays in reading aloud is an empirical one; I will discuss evidence relevant to this open question.

Mark Seidenberg  
Department of Psychology at the University of Wisconsin, US  

Reading involves learning to compute the meanings of words from print; being able to read aloud is just a by-product. Characteristics of reading aloud are therefore determined by how people solve the reading problem, as well as by characteristics of the orthography-phonology mapping, which vary across writing systems, and individual differences, which may be constitutional or experiential in origin. These factors determine the “division of labor” between different components of the lexical system relevant to tasks such as reading aloud, giving rise to a variety of effects, including semantic influences on reading aloud. I’ll consider relevant empirical evidence and related issues concerning the adequacy of competing computational models of word naming and reading.
Friday Discussion Panel

THE ROLE OF THE RIGHT HEMISPHERE IN FIGURATIVE LANGUAGE PROCESSING

Friday, November 8, 2:45 – 4:15 pm, Crystal Ballroom

Chair: Christine Chiarello, Cognitive Psychology Lab, Department of Psychology, University of California, Riverside, US

Miriam Faust
Gonda Multidisciplinary Brain Research Center and Bar-Ilan University, Israel

While the role of the right hemisphere (RH) in processing nonliteral language is highly controversial, there is much evidence indicating that the comprehension of novel metaphoric expressions requires strong RH involvement. The findings of a series of studies using a variety of experimental techniques, including behavioral, fMRI, MEG, ERP and TMS, provide convergent evidence linking the RH, particularly right posterior superior temporal areas, with the ability to integrate the meanings of two seemingly unrelated concepts into a meaningful novel metaphoric expression. These findings indicate that semantic processing in the intact brain is associated with distinct and flexible patterns of hemispheric interaction that is characterized by higher RH involvement for processing novel metaphors taken from poetry compared to literal, conventional metaphoric and meaningless expressions (Faust, 2012). Furthermore, research on persons with Asperger and with Schizophrenia support RH unique contribution to the comprehension of novel conceptual combinations by demonstrating the negative effects of either reduced or excessive RH involvement on the ability to understand novel metaphors. The findings on novel metaphor processing thus suggest that the expert, rule-based semantic mechanisms of the left hemisphere are not sufficient for coping with the rule-violating, emergent and more creative aspects of this type of nonliteral language. This claim has significant implications for understanding the neurobiological processes involved in word meaning extension and is consistent with several models, including the Fine-Coarse Semantic Coding Theory (e.g., Jung Beeman, 2005) and the Graded Salience Hypothesis (Giora, 2007).

Alexander M. Rapp
Department of Psychiatry, University of Tuebingen; Germany

The right hemisphere processing hypothesis for metaphors and figurative language is popular and somewhat plausible, but how about the evidence for right hemisphere involvement in figurative language comprehension? In this debate, I will take the position against a pre-eminent role of the right hemisphere for figurative language. The most-cited study in the context of right hemisphere figurative language is a PET-study from the 1990’s with only 6 subjects. However, until now, approximately 40 functional magnetic resonance imaging studies have investigated figurative language comprehension. Although a substantial number has the hypothesis of a predominant role of the right hemisphere, there is a substantial number of studies with negative findings. A quantitative, coordinate based-analysis fails to indicate a pre-eminent role of the right hemisphere. Findings from lesion studies are heterogeneous.
General Information

ATM
An ATM machine is located in the Office Tower Lobby, directly below the Ballroom Foyer.

Abstracts
The poster and slide abstracts can be found in the PDF, which is downloadable from the neurolang.org website.

Audio-Visual
An LCD projector (e.g., for PowerPoint presentations) will be provided in the ballroom; however, computers will NOT be provided. Presenters must bring their own computers and set them up BEFORE the start of the session in which they are presenting. A switch box will be provided to allow several computers to be connected to the LCD projector in a room. Presenters are strongly encouraged to arrive at their scheduled room a minimum of 30 minutes before their talk so that they know how to set up their equipment.

Baggage Check
All attendees, even those not staying at the Westin, are welcome to check their bags at the front desk.

Business Center
The Business Center is open 24 hours a day and is located in the Office Tower Lobby, directly below the Ballroom Foyer. The Center is fully automated. Boarding passes may be printed free of charge. Guests may also browse the internet or use the fax machine. There is a minimum charge of $7.00 for the first ten minutes of internet use, and $.70 for each additional minute.

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 and Printing
Copying and printing can be done at the Business Center. Black and white printing is $.65 per page. Color printing is $1.00 per page. Black and white copying is $.50 per page, with a $2.00 minimum. Color copying is $1.00 per copy, with a $4.00 minimum.

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.

Fitness Center
The fitness center is currently closed, while it is undergoing renovation. The hotel will provide complimentary passes to nearby athletic clubs. Please inquire at the front desk.

Food Service
Complimentary food and beverage service is available to all registered attendees at the following times:

**Wednesday**
- Afternoon Coffee, 2:30 – 3:00 pm, Emerald Ballroom
- Welcome Reception, 6:20 – 7:50 pm, Pool Deck

**Thursday**
- Continental Breakfast, 8:00 - 8:30 am, Ballroom Foyer
- Coffee Break, 9:50 - 10:20 am, Emerald Ballroom
- Afternoon Coffee, 3:45 - 4:15 pm, Emerald Ballroom

**Friday**
- Continental Breakfast, 8:00 - 8:30 am, Ballroom Foyer
- Coffee Break, 9:50 - 10:20 am, Emerald Ballroom
- Afternoon Coffee, 4:15 – 4:45 pm, Emerald Ballroom

Future Meetings
SNL 2014 will be held at the Beurs van Berlage, Amsterdam, August 27 - 29, 2014.

Hotel Outlets
Dining
The Coast restaurant features an open breakfast buffet, as well as an a la carte menu for breakfast, lunch and dinner. It is open daily from 6:30 am - 9:30 pm.

Bar Service
The hotel bar is located within the Coast Restaurant. Bar hours are from 1:00 pm - 11:00 pm. Happy Hour is from 3:00 pm - 6:00 pm.

Coffee
The hotel features a coffee-to-go stand open every morning from 6:30 am - 11:00 am. Coffee is $2.00.
Internet
Standard wired & wireless internet is available in the guest rooms free of charge. High speed access is available for $12.95 per 24 hours (multi-day packages are available). Internet is free in the lobby in 1/2 hour increments by obtaining a code from the front desk agents. There is free internet in the meeting rooms.

Local Dining
The Concierge Desk maintains photo albums containing menus for area restaurants. The Desk is open from 8:00 am - 8:00 pm.

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

Meeting Rooms
All general sessions (Keynotes, Discussion Panels and Slides) will be held in the Crystal Ballroom.

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 Ballroom Foyer. The Registration Desk hours are:
Wednesday, November 6, 11:00 am - 5:30 pm
Thursday, November 7, 7:30 am - 7:00 pm
Friday, November 8, 7:30 am - 7:00 pm

Parking
Valet parking is $32 per night or $4 per 30 minutes. Enjoy in/out privileges with overnight valet parking. There are also 3rd party parking lots surrounding the hotel. These lots generally do not have in/out privileges.

Phone Charging Station
For your convenience, a phone charging station is located at the Registration Desk.

Pool
A heated outdoor lap pool is located on the 3rd floor of the hotel. Hours of operation are from 6:00 am - 10:00 pm.

Poster Sessions
Posters are located in the Emerald Ballroom.

Reception
The Welcome Reception will be held on Wednesday, November 6th on the Pool Deck, from 6:20 – 7:50 pm.

Smoking
Smoking is not permitted at The Westin San Diego.

Speakers
Please ensure that you are available at least thirty minutes before the start of the session. See “Audiovisual” for technical information.

Transportation - Airport
Airport Shuttle
The Westin San Diego offers a complimentary airport shuttle 7 days per week from 6:00 am - 11:00 pm (based upon availability). Reservations are required. To reserve the shuttle van from the airport, call the hotel (1-619-239-4500) from the baggage claim kiosk. To reserve the shuttle van to the airport, sign up at the luggage desk in the lobby 24 hours in advance or call service express.

Taxi
The San Diego Airport is located at 3225 N. Harbor Dr., a 5-10 minute drive from the Westin San Diego. Taxi service to the airport costs approximately $10.00 - $15.00.

Bus
The “992 Flyer” leaves every 15 minutes from the bus stop outside of the hotel on Broadway. The fare is $2.50 one way. The Santa Fe Depot is located one block from the hotel.
Slide Sessions

Slide Session A
Wednesday, November 6, 4:30 - 5:50 pm, Crystal Ballroom

Speech and Auditory Perception

Chair: Emily Myers, University of Connecticut
Speakers: Edward Chang, Stephen M. Wilson, Isabelle Deschamps, Daniela Sammler

4:30 pm
A1 Phonetic feature selectivity in the human temporal lobe  
Edward Chang1, Nima Mesgarani1, Connie Cheung1, Keith Johnson1; 1UC San Francisco

4:50 pm
A2 The impact of vascular factors on language localization in the superior temporal sulcus  
Stephen M. Wilson1; 1University of Arizona

5:10 pm
A3 The relationship between cortical thickness and the processing of statistics in the auditory signal: insights from speech and non-speech sounds  
Isabelle Deschamps1,2, Uri Hasson3,4, Pascale Tremblay1,2; 1Université Laval, Département de réadaptation, Québec, Canada, 2Centre de Recherche de l’Institut Universitaire en santé mentale de Québec, Canada, 3Center for Mind/Brain Sciences (CIMeC), University of Trento, Italy, 4Department of Psychology and Cognitive Sciences, University of Trento, Italy

5:30 pm
A4 Prosody perception in the laryngeal premotor cortex: A TMS study  
Daniela Sammler1,2, Pascal Belin1,3,4, Marie-Hélène Grosbras1; 1School of Psychology and Institute of Neuroscience and Psychology, University of Glasgow, Glasgow, UK, 2Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany, 3BRAMS, University of Montréal and McGill University, Montréal, Canada, 4Institut des Neurosciences de La Timone, UMR 7289, CNRS and Université Aix-Marseille, France

Slide Session B
Thursday, November 7, 8:30 - 9:50 am, Crystal Ballroom

Speech Production and Phonology

Chair: Richard Wise, Imperial College London
Speakers: Dirk Den Ouden, Sara Berentsen, Karthik Durvasula, Thomas Pieters

8:30 am
B1 Neural representations of segments and syllables as phonological domains  
Dirk Den Ouden1, Emily Garnett1, Adina Raizen2, Victoria Sharpe1; 1University of South Carolina, 2University of Illinois at Urbana-Champaign

8:50 am
B2 Lesion Correlates of Phonological Access Impairment: Voxel-Based Lesion-Symptom Mapping  
Sara Berentsen1, Benjamin Stengel1, Megan Rozman1, Diane Book1, Jeffrey Binder1; 1Medical College of Wisconsin, Milwaukee, WI, USA

9:10 am
B3 Speaking beats listening: Evidence that motor activity out-primes auditory activity during speech perception  
Karthik Durvasula1, Arild Hestvik2; 1Michigan State University, 2University of Delaware

9:30 am
B4 Spatial probability of essential language sites: Cortical stimulation density map in a population  
Thomas Pieters1, Cihan Kadipasaoglu1, Vatche Babayan1, Nitin Tandon1; 1Vivian Smith Department of Neurosurgery, UT Houston

Slide Session C
Thursday, November 7, 2:25 – 3:45 pm, Crystal Ballroom

Language Development and Bilingualism

Chair: Fred Dick, University of London
Speakers: Monika Molnar, Tali Bitan, Michael Bonner, Anna Beres

2:25 pm
C1 Different neural specializations support native speech processing of young monolingual and bilingual infants  
Monika Molnar1, Marcela Peña2, Cesar Caballero1, Martijn Baart1, Ileana Quiñones1, Manuel Carreiras1; 1Basque Center on Cognition, Brain and Language (BCBL), 2Catholic University of Chile

2:45 pm
C2 Do children and adults learn a new linguistic skill in the same way? Effects of age and sleep on learning morphological inflections in an artificial language  
Tali Bitan1, Michael Nevat1, Qamar Daher1, Karin Levenberg1; 1University of Haifa
Slide Session D
Friday, November 8, 8:30 - 9:50 am, Crystal Ballroom
Lexical Semantics
Chair: Ellen Lau, University of Maryland
Speakers: Paul Hoffman, Liuba Papeo, Ajay Halai, Alona Fyshe

8:30 am
D1 Anterior temporal contributions to single-word reading revealed using distortion-corrected fMRI  Paul Hoffman1, Matthew A. Lambon Ralph1, Anna M. Woollams1; 1University of Manchester

8:50 am
D2 The origin of word-related motor activity  Liuba Papeo1,2, Angelika Lingnau1, Sara Agosta1, Lorella Battelli3, Alvaro Pascual-Leone1, Alfonso Caramazza1,2; 1Department of Psychology, Harvard University, 2Center for Mind/Brain Sciences, University of Trento, 3Center for Neuroscience and Cognitive Systems, Istituto Italiano di Tecnologia, 4Berson-Allen Center for Noninvasive Brain Stimulation and Department of Neurology, Beth Israel Deaconess Medical Center, Boston

9:10 am
D3 Combining EEG-fMRI to investigate brain networks involved in spoken word comprehension.  Ajay Halai1, Laura M Parkes1, Stephen Welbourne1; 1Neuroscience and Aphasia Research Unit, School of Psychological Sciences, University of Manchester, UK, 2Centre for Imaging Sciences, Institute of Population Health, University of Manchester, UK

9:30 am
D4 Semantic Representations from a Joint Model of Brain and Text Based Meaning  Alona Fyshe1, Brian Murphy1, Partha Talukdar1, Tom Mitchell1; 1Carnegie Mellon University

Slide Session E
Friday, November 8, 1:15 – 2:35 pm, Crystal Ballroom
Lexical-Sentential Cognitive Control
Chair: Sharon Thompson-Schill, University of Pennsylvania
Speakers: Corey McMillan, Sylvia Vitello, Wouter Duyck, Tineke M Snijders

1:15 pm
E1 A dual network account for pronoun resolution in Parkinson’s disease.  Corey McMillan1, Nicola Spotorno1, Jenna Haley1, Robin Clark1, Murray Grossman1; 1University of Pennsylvania

1:35 pm
E2 Neural responses to semantic ambiguities encountered during spoken sentences  Sylvia Vitello1, Jane E. Warren1, Joseph T. Devlin1, Jennifer M. Rodd1; 1University College London

1:55 pm
E3 Cognate Effects and Cognitive Control in Patients with Parallel and Differential Bilingual Aphasia  Wouter Duyck1, Nele Verreyt1, Miet De Letter2, Hemelsoet Dimitri3, Mariën Peter4, Santens Patrick1, Stevens Michael1; 1Department of Experimental Psychology, Ghent University, Belgium., 2Department of ORL & Logopaedic and Audiologic Sciences, Ghent University, Belgium., 3Department of Neurology, Ghent University Hospital, Belgium., 4Department of Neurology, ZNA Middelheim, Antwerp, Belgium.

2:15 pm
E4 Temporal dynamics of word-category ambiguity resolution depend on CNTNAP2 genotype: an MEG study  Tineke M Snijders1,2, Giovanni Piantoni1, Gerard Kempen4,5, Theo Vosse1,2, Jos JA van Berkum4,6, Mark Rijpkema1, Barbara Franke1,7, Guiller Fernandez1,7, Robert Oosterweld1, Peter Hagoort1,4; 1Radboud University Nijmegen, Donders Institute for Brain, Cognition and Behaviour, Nijmegen, the Netherlands, 2Radboud University Nijmegen, Centre for Language Studies, Nijmegen, the Netherlands, 3Netherlands Institute for Neuroscience, Amsterdam, the Netherlands, 4Max Planck Institute for Psycholinguistics, Nijmegen, the Netherlands, 5Leiden University, Cognitive Psychology Unit, Leiden, the Netherlands, 6Utrecht University, Utrecht Institute of Linguistics OTS, Utrecht, the Netherlands, 7Radboud University Medical Centre, Nijmegen, the Netherlands
# Poster Schedule

Poster sessions are scheduled on Wednesday, November 6 through Friday, November 8. Poster sessions are 2 hours, and presenting authors are expected to be present the entire time. Posters are located in the Emerald Ballroom. 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>Setup Begins: 8:00 am</td>
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<td>C17 - C22</td>
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<td>C28 - C37</td>
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<td>D12 - D19</td>
<td>Motor Control, Speech Production, Sensorimotor Integration</td>
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<td>E1 - E7</td>
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<td>4:15 - 6:15 pm</td>
<td>E8 - E18</td>
<td>Auditory Perception, Speech Perception, Audiovisual Integration</td>
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<td>Setup Begins: 1:00 pm</td>
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<td>E59 - E69</td>
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Poster Sessions

Poster Session A

Wednesday, November 6, 2:30 – 4:30 pm, Emerald Ballroom

Gesture, Prosody, Social and Emotional Processes

A1 Neural responses during perception of naturally produced, meaningful co-speech gestures  Jill Weisberg1, Amy L. Hubbard2, Karen Enmore3; 1San Diego State University Research Foundation, 2Carnegie Mellon University, 3San Diego State University

A2 Investigating age-related differences in neural systems supporting the processing of emotion vocalizations  Cesar Lima1,2, Nadine Lavan1, Zarina Agnew1, Samuel Evans1, Pradheep Shanmugalingam1, Carolyn McGettigan1, Sophie Scott1; 1University College London, 2University of Porto, 3Royal Holloway, University of London

A3 Recruitment of neural networks to understand emotional meaning is contextually modulated  Serena Klos1, Jean Decety1, Howard C. Nusbaum1; 1The University of Chicago

A4 Neurophysiological differentiation between preattentive and attentive processing of emotional expressions on French vowels  Mathilde Carminati1, Delphine Breuillard1, Nicole Fiori1, Charlotte Kouklia2, Nicolas Audibert2, Jacqueline Vaissière2, Frédéric Isel1,2; 1Paris Sorbonne Cité - Paris Descartes University, 2Sorbonne Nouvelle Paris 3 University

A5 Effects of Valence, Arousal and Age in Incidental Encoding of Words and Subsequent Recognition Memory Processing  Hande Kaynak1, Didem Gökçay2; 1North Carolina State University, 2Middle East Technical University

A6 Coordinating on the oddball in behavioral variant frontotemporal dementia  Giulia Porcarl1, Stephanie Golb1, Nicola Spotorno1, Robin Clark2, Murray Grossman1, Corey McMillan1; 1Perelman School of Medicine, Penn Frontotemporal Degeneration Center, 2Department of Linguistics, University of Pennsylvania

A7 Gesture Comprehension Recruits Sensori-Motor Systems  Ying Choon Wu1, Seana Coulson1, Scott Makeig1; 1UC San Diego

A8 Ape Gestural Learning: An evolutionary perspective grounded in dyadic brain modeling  Brad Gasser1, Michael Arbib1; 1University of Southern California

Auditory Perception, Speech Perception, Audiovisual Integration

A9 Engagement of the Cingulo-Opercular System Enhances Future Word Recognition  Kenneth I. Vaden1, Stefanie E. Kuchinsky1, Stephanie L. Cute1, Jayne B. Ahlstrom1, Judy R. Dubno1, Mark A. Eckert1; 1Medical University of South Carolina

A10 Perception of speech in noise and other maskers by musicians and non-musicians  Dana Boebinger1, César Lima1,2, Samuel Evans1, Stuart Rosen3, Sophie K. Scott1; 1Institute of Cognitive Neuroscience, University College London, 2Faculty of Psychology and Education, University of Porto, 3Speech, Hearing, & Phonetic Science, University College London

A11 Direct influence of sentential context on the perceptual analysis of speech: Evidence from Granger analysis of MRI-constrained MEG/EEG data  David Goua1,2,3, Bruna Olson1,2, A. Conrad Nied1,2; 1Massachusetts General Hospital, 2Athinoula A. Martinos Center for Biomedical Imaging, 3Salem State University

A12 Speech processing over multiple time scales: An MEG study of functional connectivity  Maryse Thomas1,2, Sylvain Baillet1,2, Vincent Gracco1,2; 1Centre for Research on Brain, Language, and Music, McGill University, Montreal, QC, Canada, 2McConnell Brain Imaging Centre, Montreal Neurological Institute, Montreal, QC, Canada

A13 Identifying hub structures of emotional speech in the human brain  Sonja Kotz1, Sophie K Scott1, Stuart Rosen1, Jonas Oblesar1; 1The University of Manchester, 2UCL, 3MPI for Human Cognitive and Brain Sciences

A14 Discriminating the Intervals of Two-tone Melodic Sequences  Carolyn McClaskey1; 1University of California, Irvine

A15 Investigating the role of speech-selective regions during videogame-based non-speech sound category acquisition  Sung-Joo Lim1, Julie A. Fiez2,3, Lori L. Holt1,3; 1Carnegie Mellon University, 2University of Pittsburgh, 3Center for the Neural Basis of Cognition

A16 Mapping multidimensional phonetic spaces using the acoustic change complex of EEG recordings  Paul Iverson1, Marta Mulyak1, Anita Wagner1; 1University College London
A18 Brain response to a rhythm deviant in adolescent cochlear implant users before and after an intensive musical training program Bjorn Petersen1, Ethan Weed4, Mads Hansen1, Stine Derda1, Pascale Sandmann1, Peter Vuust1, 1Aarhus University, 2Hannover Medical School

A19 Neurophysiological Evidence for the Recruitment of Right Hemisphere Homologues During Speech Perception by musicians McNeel Jantzen3, Bradley Howe1, K.J. Jantzen1, 1Western Washington University

A20 Optimal design of speech perception fMRI studies for robust quantification of single trial activation patterns Julia M. Fisher1, Stephen M. Wilson1, 1University of Arizona

A21 MEG correlates of acoustic speech features Miika Koskinen1, 1Aalto University, Finland

Motor Control, Speech Production, Sensorimotor Integration

A22 Title: Convergent transcriptional specializations in the brains of humans and song learning birds Andreas R. Pfenning2, Erina Har3, Osceola Whitney4, Miriam Rivas1, Petra Roulhac5, Jason T. Howard1, Ganesh Ganapathy1, M. Arthur Mosely1, J. Will Thompson1, Erik J. Soderblom1, Alexander J. Hartemink1, Erich D Jarvis1,2, 1Duke University Medical Center, 2Howard Hughes Medical Institute

A23 Internal vs. external deviations from auditory targets in speech Caroline Niziolek1, Srikantan Nagarajan1, John Houde1, 1University of California, San Francisco

A24 Modulations of speaking-induced suppression in speech imitation Matthias K. Franken1,2, Daniel J. Acheson1,2, Peter Hagoort1,2, 1Max Planck Institute for Psycholinguistics, Nijmegen, The Netherlands, 2Donders Institute for Brain, Cognition, and Behaviour, Radboud University, Nijmegen, The Netherlands

A25 Covert production of speech and emotional vocalizations: further evidence for a neural dissociation between different complex articulations Zarinah Agnew1, Liliya Ward1, Carolyn McGettigan1,2, Oliver Josephs1, Sophie Scott1, 1UCL Institute of Cognitive Neuroscience, 2Royal Holloway, University of London

A26 Speech evoked potentials in Parkinson’s disease François-Xavier Brajot1,2, Douglas M. Shiller2,3, Vincent L. Gracco1,2, 1McGill University, 2Centre for Research on Brain, Language and Music, 3Université de Montréal

A27 Energetic and informational masking effects on speech production Sophie Meekings4, Samuel Evans1, Nadine Lavan1, Sophie K Scott1, 1University College London

Orthographic Processing, Writing, Spelling

A28 Are specialized brain areas necessary for perceptual expertise? Insights from a fast letter recognition fMRI experiment Marcin Szewd1,2,3, Evelyn Eger4, Marianna Boros1, Justyna Różycka1, Myriam Chanceaux1,2, Daisy Bertrand1,2,3, Stephane Dufau1,2,3, Laurent Cohen5,6,7,8, Stamusias Dehaene4,9, Johannes Ziegler2,3, Jonathan Grainger2,3, 1Department of Psychology, Jagiellonian University, Krakow, Poland, 2Laboratoire de Psychologie Cognitive, CNRS, Marseille, France, 3Aix-Marseille University, France, 4INSERM-CEA Cognitive Neuroimaging Unit, Gif sur Yvette, France, 5INSERM, ICM Research Center, UMRS 975, Paris, France, 6Université Pierre-et-Marie-Curie, Faculté de Médecine Pitié-Salpêtrière, IFR 70, Paris, France, 7AP-HP, Hôpital de la Salpêtrière, Department of Neurology, Paris, France, 8CENIR, ICM Research Center, UMRS 975, Paris, France, 9College de France, Paris, France

A29 The hemispheric differences on the optimal viewing position asymmetry Wen-Hsuan Chan1, Thomas P. Urbach1, Marta Kutas1,2, 1University of California, Cognitive Science, San Diego, 2University of California, Neurosciences, San Diego

A30 Diffusion properties of the cerebellar peduncles are associated with reading skills in pre-term and full-term children Katherine Travis1, Yael Leitner2, Michal Ben-Shachar3, Heidi Feldman1, 1Stanford School of Medicine, 2Tel Aviv Sourasky Medical Center and Sackler School of Medicine, 3Bar-Ilan University

A31 Using Artificial Orthographies to Study the Neural Correlates and Fusiform Laterality of Writing Systems With Different Grain Sizes Elizabeth Hirshorn1, Alaina Wrenchner2, Rob Schwartz3, Corinne Durisko2, Michelle Moore2, Julie Fiez1,3,4,5, 1Learning Research & Development Center, University of Pittsburgh, 2West Virginia University, 3Department of Psychology, University of Pittsburgh, 4Department of Neuroscience, University of Pittsburgh, 5Center for the Neural Basis of Cognition

Signed Language

A32 Biological attraction for natural language input in the visual modality So-One Hwang1, Stephanie Aguirre2, Rain Bosworth1, 1UC San Diego

A33 The relation between perception and action: Evidence from sign language Kayoko Okada1, Corianne Rogalsky1, Lucinda O’Grady2, Leila Hanaumi2, Ursula
A34  Shared Cortical Representation of the Hands and Face in a Deaf Signer: Evidence form Cortical Stimulation Mapping  David Corina1, Shane Blau1, Todd LaMarr1, Diane Allhouse1, Matt Leonard1, Edward Chang2; 1University of California, Davis, 2University of California, Irvine

A35  The neural circuits recruited for the production of fingerspelling and signing  Karen Emmorey1, Sonya Mehta2, Stephen McCullough3, Thomas Grabowski1; 1San Diego State University, 2University of Washington

A36  The role of left superior parietal lobule in sign language production: A TMS study with British Sign Language  David Vinson1, Neil Fox1, Karen Emmorey2, Joseph Devlin3, Daniel Roberts1, Gabriella Vigliocco1; 1University College London, 2San Diego State University

Language Development, Plasticity, Multilingualism

A37  Neural Correlates Associated with the Perceptual Learning of Synthetic Speech  Shannon Heald1, Joseph Winer1, Edward Wagen1, Brendan Colson1, Howard Nusbaum1; 1The University of Chicago

A38  Age of L2 Onset Modulates Left MTG Specialization for L1 Lexical Tones  Benjamin Zinszer1, Thomas Holt1, Han Wu2, Hua Shu2, Ping Li1; 1Pennsylvania State University, 2Beijing Normal University

A39  The effects of perceptual distortion, age and proficiency on the functional neural activation for sentence processing  Saloni Krishnan1, Robert Leech1, Evelyn Mercure1, Sarah Lloyd-Fox1, Frederic Dick1; 1Birkbeck, University of London, 2Imperial College London, 3University College London

A40  Cognate effects on first language word listening in bilinguals  Ana Sanjuan1,2, Elisenda Buechekia1, María-Anges Palomar-García1, Noelia Ventura-Campos1, César Ávila1, Albert Costa1; 1Grupo de Neuropsicología y Neuroimagen Funcional, Departamento de Psicología Básica, Clínica y Psicobiología, Universitat Jaume I, Castellon, Spain, 2Centre de recerca de l’Institut Universitari de Gériatrie de Montreal, Canada

A41  It Is Never Too Late: The Neural Substrate of Interference Control in Elderly Late Bilinguals  Ladan Ghazi Saidi1, Dail Adrower Roig2, Ana-Ines Ansaldo1,2; 1Centre de recherche de l’Institut Universitaire de Gériatrie de Montréal, Canada, 2University of the Balearic Islands

A42  Dissociating perceptual processes and language decisions in the bilingual brain – L1 but not L2 recognition affects early processing stages  Yulia Oganian1,2, Markus Conrad1, Katharina Spalek1, Hauke R. Heekeren1,2; 1Freie Universität Berlin, 2Bernstein Center for Computational Neuroscience, Berlin

A43  An advantage in switching for some bilinguals over others, but not over monolinguals  Maya Ravid1, Aurora I. Ramos Nuñez1, Arturo E. Hernandez1; 1University of Houston

A44  Cross-linguistic interference in French/Arabic bilingual gender agreement processing: ERP evidence  John E. Drury1, Marisa Kalilzna1, Hakima Guella1, Anne Cheylus3, Viviane Deprez2,4; 1Stony Brook University, 2École polytechnique fédérale de Lausanne, 3L2C2 CNRS, 4Rutgers University

A45  Semantic errors in comprehension: A voxel-based lesion symptom mapping study  Paul Fillmore1, Helga Thors1, Zachary Eker2, Taylor Hanayik1, Sigridur Magnusdottir1, Julius Fridrikkson1; 1University of South Carolina, 2University of Iceland

Lexical Semantics

A46  An fMRI study of concreteness effects in auditory lexical decision  Tracy Roxbury1,2,5, Katie McMahon2, Alan Coulhard1,4, Raymond Buckley1, Christine McHenery1, David Copland1,5; 1Centre for Clinical Research, University of Queensland, 2Centre for Advanced Imaging, University of Queensland, 3Academic Discipline of Medical Imaging, University of Queensland, 4Royal Brisbane and Women’s Hospital, Brisbane, Australia, 5School of Health and Rehabilitation Sciences, University of Queensland

A47  The behavioral and neural effects of language on motion perception  Jolien C. Francken1, Peter Kok1, Peter Hagoort1,2, Floris P. de Lange1; 1Donders Institute for Brain, Cognition and Behavior, Radboud University Nijmegen, Netherlands, 2Max Planck Institute for Psycholinguistics, Nijmegen, Netherlands

A48  Frontal and Parietal Cortex Supports Generalized Quantifier Complexity  Christopher Olm1, Corey McMillan1, Robin Clark2, Murray Grossman1; 1Perelman School of Medicine, University of Pennsylvania, Philadelphia, 2University of Pennsylvania, Philadelphia

A49  Fusion and fission of functions in parietal cortex: mapping the functional organisation of parietal cortex in a multi-domain meta-analysis  Gina Humphreys1, Matthew Lambon Ralph1; 1University of Manchester
A50  The Role of the Inferior Frontal Cortex in Idiom Processing: An rTMS Study  Katja Haeuser1,2, Debra Titone1,2, Shari Baum2; 1School of Communication Sciences and Disorders, McGill University, Montreal QC, Canada, 2Centre for Research on Brain, Language and Music, McGill University, Montreal QC, 3Department of Psychology, McGill University, Montreal QC, Canada

A51  Semantic Variability Predicts Neural Variability of Object Concepts  Elizabeth Musz1, Sharon L. Thompson-Schill1; 1University of Pennsylvania

A52  The roles of left and right inferior frontal cortex in the comprehension of ambiguous sentences  Jennifer M. Rodd1, Sylvia Vitello1, Joseph T. Devlin1, Jane E. Warren1; 1University College London

A53  ERP responses to code-switching in cognate/non-cognate word recognition by Chinese-Japanese bilinguals  Yingyi Luo1, Changhai Jiang1, Shengyan Long1, Hiromu Sakai1; 1Hiroshima University

A54  Oscillatory dynamics in semantic cognition: Neural processes underlying automatic and controlled semantic retrieval revealed by MEG  Beth Jefferies1, Catarina Teige1, Piers Cornelissen2, Giovanna Mollo1; 1University of York, UK, 2Northumbria University, UK

A55  A neural network model of a semantic space: correlation with priming and EEG data  Alvaro Cabana1, Camila Zugarramurdi2, Eduardo Mizraki1, Juan C. Valle-Lisboa1,2; 1Facultad de Ciencias, 2Facultad de Psicología, Universidad de la República, Uruguay

Syntax, Morphology

A56  Representational similarity analysis reveals the nature and sequence of syntactic computations in the fronto-temporal language network  Barry Devereux1, Alex Clarke1, Teresa Cheung1, Lorraine Tyler1; 1University of Cambridge

A57  Irregular and regular verbs elicit identical ERP responses to violations of tense expectations: Evidence for single-route over dual-route models  Arild Hestvik1,2, Valerie Shafer1, Richard G. Schwartz1; 1University of Delaware, 2The Graduate Center, City University of New York

A58  Imaging speech comprehension in quiet with high density diffuse optical tomography  Mahlega Hassanpour1, Adam T Eggebrecht2, Jonathan E. Peelle1, Joseph P. Culver1; 1Washington University in St. Louis, 2Washington University School of Medicine

A59  Stripping off semantics from the syntax skeleton: the role of Broca’s area  Tomás Goucha1,2, Angela D. Friederici1; 1Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany, 2Berlin School of Mind and Brain, Humboldt University, Germany

A60  Are you talkin’ to me? An fMRI study on syntactic priming effects in a communicative context  Lotte School1,2, Laura Menenti1, Peter Hagoort1,2, Katrien Segaert1,2; 1Max Planck Institute for Psycholinguistics, 2Donders Institute for Brain, Cognition and Behaviour, Centre for Cognitive Neuroimaging, 3University of Groningen

A61  Processing of Negative Polarity Items in Turkish  Aydoğan Yanılmaz1, John E. Drury1; 1Stony Brook University

A62  Context influences word order predictions in Broca’s region  Line Burholt Kristensen1,2, Elisabeth Engberg-Pedersen1, Mikkel Wallentin2,3; 1University of Copenhagen, 2Center of Functionally Integrative Neuroscience, Aarhus University Hospital, 3Aarhus University

A63  ERP Signatures of Intransitive Verbs’ Argument Structure Violations  Angel Ramirez-Sarmiento1, Arild Hestvik1; 1University of Delaware

Language Disorders

A64  An fMRI-equivalent of Mismatch Negativity correlates with psychological speech tests in patients with sensory aphasia  Larisa Mayororova1,2, Oxana Fedina1, Alexey Petrushevsky1, Olga Martynova1; 1Institute of Higher Nervous Activity and Neurophysiology of Russian Academy of Science, 2Centre of Speech Pathology and Neurorehabilitation, Moscow

A65  Termination processes and jargon aphasia: My mind will not stop!  Gail Robinson1,2, Brian Butterworth3, Lisa Cipolotti1,4; 1The University of Queensland, Brisbane Australia, 2National Hospital for Neurology and Neurosurgery, London, UK, 3University College London, UK, 4University of Palermo, Italy

A66  Neural activations during nonlinguistic category learning in individuals with aphasia  Sofia Vallila-Kohter1,2, Swathi Kiran1; 1Massachusetts Institute of Technology, 2Boston University, Aphasia Research Laboratory

A67  Functional MRI confirms subjective experience of internal naming success in aphasia  William Hayward1, Sarah F. Snider1, Rhonda B. Friedman1, Peter E. Turkeltaub1; 1Georgetown University

A68  Beta band oscillations during basic sentence comprehension in patients with schizophrenia  Kirsten Weber1,2,3, Ellen Lau1,2,3,4, Nathaniel Delaney-Busch1, Matti Hämäläinen1,2, David Henderson1,2, Gina Kuperberg1,2,3; 1Harvard Medical School, 2Massachusetts General Hospital, 3Tufts University, 4University of Maryland
A69  Silences in speech in primary progressive aphasia Sharon Ash1, Danielle Weinberg1, Jenna Haley1, Ashley Boller1, John Powers1, Corey McMillan1, Murray Grossman1; 1Perelman School of Medicine, University of Pennsylvania

A70  Reduced hemispheric asymmetry in the use of weak sentential context in schizotypy Edward W. Wlotko1,2; 1University of Illinois, 2Tufts University

A71  Language and communication abilities in depression and Mild Cognitive Impairment: a comparative study Lilian C. Scherer1, Fernanda S. Loureiro2, Eduardo L. Nogueira2, Michele Beckert2, Gislaine M. Jerônimo1, Bruna Tesser2, Iêrônio G. da Silva Filho1; 1Pontifical Catholic University of Rio Grande do Sul (PUCRS), Linguistics Department, Brazil, 2Pontifical Catholic University of Rio Grande do Sul (PUCRS), Biomedical Gerontology, Institute of Geriatrics and Gerontology Brazil

A72  Right brain, wrong verb: functional neuroanatomy of action naming in aphasia Olga Dragoy1, Maria Ivanova1, Svetlana Maluytina1, Elena Kozintseva1, Yulia Akinina1, Daniil Sevan2, Svetlana Kuptsova1,2, Aleksey Petruhsevsky2, Oksana Fedina3, Evgeny Gutyrchik2; 1National Research University Higher School of Economics, Russia, 2Pontifical Catholic University of Rio Grande do Sul (PUCRS), Biomedical Gerontology, Institute of Geriatrics and Gerontology Brazil

Poster Session B
Thursday, November 7, 9:50 – 11:50 am, Emerald Ballroom
Auditory Perception, Speech Perception, Audiovisual Integration

B1  The neural basis of speech perception is task-dependent: a lesion study Corianne Rogalsky1, Kristin Raphel2, Vivian Tomkovicz2, Tasha Poppa1, Steve Anderson1, Hanna Damasio1, Tracy Love1, Gregory Hickok2; 1University of California, Irvine, 2University of Southern California, 3University of Iowa, 4San Diego State University and University of California, San Diego

B2  Temporal dynamics of selective auditory attention, discrimination and sequencing: anatomically constrained aMEG studies. Paula Tallal1, Matt Erhart1, Terry Jernigan2, Timothy T. Brown1; 1Rutgers University, Newark, 2UCSD

B3  Audio-visual integration deficits in Alzheimer’s Disease (AD): clinical and theoretical implications George Stothart1, Nina Kazanina1; 1University of Bristol

B4  Auditory Deficits Correlate to Atrophy in the Logopenic Variant of Primary Progressive Aphasia A. Lisette Isenberg1, Jamie Reilly2, Murray Grossman1; 1University of Pennsylvania, 2University of Florida

B5  Top-down effects from sentence context on speech processing in aphasia Neal Fox1, Sheila E. Blumstein2,3; 1Brown University, 2Brown Institute for Brain Science

B6  Music Perception in Aphasia: Relationship to Aphasia Subtype and Lesion Site Juliana Baldo, Barbara Tillmann1, Timothy Justus; 1VA Northern California Health Care System, 2Lyon Neuroscience Research Center, 3Pitzer College

B7  Alpha phase as a marker of biased speech-in-noise perception Antje Strauss1, Molly Henry1, Mathias Scharinger1, Jonas Obler1; 1Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany

B8  How the Brain Processes Talker Variability: The Role of Expectation Emily Myers1,2,3, Laura Mesite2,3, Alexis Johns2,3, James Magnuson1,3; 1University of Connecticut, 2Brown University, 3Haskins Laboratories

B9  Human superior temporal gyrus encoding of speech sequence probabilities Matthew Leonard1, Kristofer Bouchard1, Edward Chang1; 1University of California, San Francisco

B10  Interplay between auditory and motor areas during phoneme and word processing investigated on a millisecond time basis Annemies Aerts1,2, Gregor Strobbe1, Pieter van Mierlo1, Robert J. Hartsuiker1, Patrick Santens2, Miet De Letter2,5; 1Department of Internal Medicine, Ghent University, Belgium, 2Department of Neurology, Ghent University Hospital, Belgium, 3Department of Electronics and Information Systems (IMinds), Ghent University, Belgium, 4Department of Experimental Psychology, Ghent University, Belgium, 5Department of Speech, Language and Hearing Sciences, Ghent University, Belgium

B11  Neural basis of multistability in auditory cortex and perceptual decision making Amrita Basu1; 1School of Cognitive Science, Jadavpur University, Kolkata, India

B12  Temporal dynamics of speech processing: an EEG decoding study of individual spoken words within and across two languages in bilingual adults Joao Correia1, Elia Formisano1, Lars Hausfeld1, Bernadette Jansma1, Milene Bonte1; 1Department of Cognitive Neuroscience, Faculty of Psychology and Neuroscience, Maastricht University and Maastricht Brain Imaging Center (M-BIC), The Netherlands
Motor Control, Speech Production, Sensorimotor Integration

**B13** Distinct networks are engaged in speech versus non-speech monitoring  
Stephanie Ries¹, Kira Xie¹, Kathleen Y. Haaland², Nina F. Dronkers³, Robert T. Knight⁴; ¹Helen Wills Neuroscience Institute and Department of Psychology, University of California, Berkeley, California, USA, ²New Mexico Veterans Affairs Healthcare System and Departments of Psychiatry and Neurology, University of New Mexico, Albuquerque, NM, USA, ³Veterans Affairs Northern California Health Care System and University of California, Davis, California, USA.

**B14** Domain-specific and domain-general monitoring in speech production and non-linguistic choice reaction tasks  
Jolien ten Velden¹, Dan Acheson¹,², Peter Hagoort¹,²; ¹Max Planck Institute for Psycholinguistics, Nijmegen, the Netherlands, ²Donders Institute for Brain, Cognition and Behaviour, Radboud University, Nijmegen, The Netherlands.

**B15** Behavioural and neural network components of sensorimotor integration for speech.  
Benjamin Elgie¹, Mamie Shumn², Lucas Dangler³, Thomas Gisiger⁴, Douglas M Shiller²,³,⁴, Shari R Baum⁵,⁶; ¹Integrated Program in Neuroscience, McGill University, Montreal, Canada., ²Centre for Research on Brain, Language and Music, Program in Neuroscience, McGill University, Montreal, Canada., ³Veterans Affairs and Departments of Psychiatry and Neurology, University of California, Davis, California, USA.

**B16** Left frontal-temporal-parietal network supporting speech and its cognitive control.  
Fatemeh Geramimayeh¹, Robert Leech¹, Richard J.S. Wise¹; ¹Imperial College London

**B17** Cortical Activity Following Natural and Simulated Saccadic Eye Movements during a “One-Back” Word Recognition Task  
Yu-Cherng Chang¹, Sheraz Khan¹, Sanna Taulu¹; ¹Emery N. Brown¹,²,²,³, Matti S Hämäläinen¹,²,³, Simona Temereanca¹,²; ¹MGH/MIT/HMS Athinoula A. Martinos Center for Biomedical Imaging, Massachusetts General Hospital, ²Harvard Medical School, ³Elekta Neuromag Oy, ⁴Massachusetts Institute of Technology

**B18** Oscillating speech acts: dynamic processing of naming and requesting in the brain as reflected in early and parallel beta and gamma band oscillatory dynamics  
Natalia Egorova¹, Friedemann Pulvermüller³, Yury Shtryov⁴,⁵; ¹Medical Research Council, Cognition and Brain Sciences Unit, Cambridge, UK, ²Brain Language Laboratory, Freie Universität Berlin, Germany, ³Center for Functionally Integrative Neuroscience (CFIN), Aarhus University, Denmark, ⁴Centre for Languages & Literature, Lund University, Sweden

Orthographic Processing, Writing, Spelling

**B19** Impaired Exception Word Reading in Aphasia: Lesion Localization  
Sara Berentsen¹, Benjamin Stengel¹, Megan Rozman¹, Diane Book¹, Jeffrey Binder¹; ¹Medical College of Wisconsin, Milwaukee

**B20** Pure agraphia: Implications for Cognitive Models of Reading and Writing/Spelling  
Venu Balasuramanian¹; ¹Seton Hall University

**B21** Language orthography and task demands modulate the engagement of regions within the reading networks  
Myriam Oliver¹, Manuel Carreiras¹,²,³, Pedro M. Paz-Alonso⁴; ¹Basque Center on Cognition, Brain and Language (BCBL), Donostia-San Sebastián, Spain, ²Ikerbasque, Basque Foundation for Science, Bilbao, Spain, ³Departamento de Lengua Vasca y Comunicación, UPV/EHU, Bilbao, Spain

**B22** ERP Effects of Frequency and Regularity Are Modulated By Task Demands: Evidence from Categorization and Delayed Reading Aloud  
Danielle S. Dickson¹, Simon Fischer-Baum¹, Kara D. Federman¹; ¹University of Illinois at Urbana-Champaign, ²Rice University

**B23** Eye-tracking measures in reading homophones and heterophones in Hebrew  
Zohar Eviatar¹, Hamutal Kreiner¹, Tamar Degan¹, Orna Peleg¹; ¹University of Haifa, ²Ruppin Academic Center, ³Tel Aviv University

**B24** The centro-parietal N200: A neural marker specific to visual Chinese character recognition  
John Xuexin Zhang¹, Bao Zhang², Xiaoifei Jia³; ¹Chinese University of Hong Kong, ²Guangzhou University, ³Zhejing University

Language Development, Plasticity, Multilingualism

**B25** ERPs Recorded During Early Second Language Exposure Predict Subsequent Proficiency in Adult Learners  
Laura Batterink¹,², Helen Neville²; ¹Northwestern University, ²University of Oregon

**B26** No trespassing? Papiamento-Dutch conflict sites  
Niels Schiller¹,², Leticia Pablos¹,², Parafita Couto Maria del Carmen¹,²; ¹Leiden Institute for Brain and Cognition, ²Leiden University Centre for Linguistics

**B27** A computational model of distinct hippocampal and cortical contributions to word learning under referential ambiguity  
David Warren¹, Melissa Duff², Bob McMurray¹; ¹University of Iowa

**B28** Neural patterns of mathematical processing in monolingual and bilingual speakers  
Shin-Yi Fang¹, Ping Li¹, Yue Wang²; ¹Pennsylvania State University, ²Simon Fraser University
B29 Working hard really does pay off: An fMRI investigation of lexical access in L2 learners  
Angela Chouinard1, Ping Li1, Shin-Yi Fang1; 1The Pennsylvania State University

B30 Alteration of functional connectivity between brain regions for executive control and those for language processing in bimodal bilinguals  
Le Li1, Guosheng Ding1, Lijuan Zou1, Xin Yan1; 1Beijing Normal University

B31 The use of cognitive control in the comprehension of Spanish-English code-switching  
Jorge Valdes Kroff1, Sharon Thompson-Schill1, John Trueswell1; 1University of Pennsylvania

B32 Development of Number Representations and Mappings in Bilingual 5- to 7-Year-Olds  
Shirlene Wade1, Irene Chavez1, Jessica Valdivia1, Jessica Sullivan1, David Barner1; 1University of California, San Diego

B33 Inhibitory control during sentential code-switching: Evidence from fMRI  
Eleonora Rossi1,2, Sharlene Newman1, Michele Diaz1, Paola E. Dussias1,2, Caitlin Ting1,2, Janet G. van Hell1,2,6; 1Department of Psychology, Pennsylvania State University, 2Center for Language Science, Pennsylvania State University, 3Department of Psychological and Brain Sciences, Indiana University, 4Psychiatry and Behavioral Sciences, Duke University, 5Department of Spanish, Italian, & Portuguese, Pennsylvania State University, 6Radboud University Nijmegen

B34 The bilingual advantage and conflict adaptation: An fMRI investigation  
Susan Teubner-Rhodes1,2, Donald J. Bolger1, Jared Novick1,2; 1University of Maryland, College Park, 2Center for Advanced Study of Language

B35 A framework for the automated analysis of speech production data  
Frédéric Roux1, Wouter De Baene4, Manuel Carreiras1,2,3; 1Basque Center on Cognition, Brain and Language (BCBL), San Sebastian, Spain, 2IKERBASQUE, Basque Foundation for Science, Bilbao, Spain, 3UPV/EHU, Universidad del Pais Basco, Spain, 4Department of Experimental Psychology, Ghent University, Belgium

Lexical Semantics

B36 An electrophysiological investigation of task effects in visual word recognition  
Ian Hargreaves1, Penny Pexman1; 1University of Calgary

B37 Category Specific Temporal and Spatial Dissociations as Revealed by Grouped Human Electro-Corticography  
Cihan Kadipasaoglu1, Christopher Conner1, Vatche Baboyan1, Nitin Tandon1; 1Vivian Smith Dept. Neurosurgery, UT Houston

B38 Alteration of functional connectivity between brain regions for executive control and those for language processing in bimodal bilinguals  
Le Li1, Guosheng Ding1, Lijuan Zou1, Xin Yan1; 1Beijing Normal University

B39 ERP Evidence for Language Effects on Visual Processing of Motion Events in Bilinguals  
Monique Flecken1, Vicky T. Lai1,2; 1Donders Institute for Brain, Cognition and Behaviour, Radboud University Nijmegen, 2Max Planck Institute for Psycholinguistics

B40 A longitudinal fMRI study of semantic association and categorical relatedness on children’s semantic processing  
Ciao-Han Wong1, Shiou-Yuan Chen2, Tai-Li Chou1,3,4; 1Department of Psychology, National Taiwan University, Taiwan, 2Department of Early Childhood Education, Taipei Municipal University of Education, Taiwan, 3Neurobiology and Cognitive Science Center, National Taiwan University, 4Graduate Institute of Brain and Mind Sciences, National Taiwan University

B41 Semantic processing in schizophrenia with motivational withdrawal  
Fang-Chia Hsu1, Tai-Li Chou1,2,3, Tsung-Jeng Huang1,2,3,4; 1Department of Psychology, National Taiwan University, Taiwan, 2Neurobiology and Cognitive Science Center, National Taiwan University, 3Graduate Institute of Brain and Mind Sciences, National Taiwan University, 4Department of Psychiatry, National Taiwan University Hospital and College of Medicine

B42 Developmental changes of structural connectivity and effective connectivity in semantic judgments of Chinese characters  
Li-Ying Fan1, Wen-Yih Isaac Tseng1,2,3, Tai-Li Chou1,2,3; 1Department of Psychology, National Taiwan University, 2Neurobiology and Cognitive Science Center, National Taiwan University, 3Graduate Institute of Brain and Mind Sciences, National Taiwan University, 4Center for Optoelectronic Medicine, National Taiwan University College of Medicine, Taipei, Taiwan, 5Department of Medical Imaging, National Taiwan University Hospital

B43 Longitudinal relation between lexical performance and regional gray matter volume  
JungMoon Hyun1, James S. Babb2, Susan M. De Santi3, Loraine K. Obler4; 1The Graduate Center of the City University of New York, 2New York University Medical Center, 3GE Healthcare

B44 Individual differences in the neurofunctional reorganization for semantic categorization in normal aging  
Ikram Methqal1,2, Jean Sebastien Provot1,2, Oury Monchi1,2, Yves Joannes1,2; 1Centre de Recherche, Institut Universitaire de Gériatrie de Montréal, Canada, 2Faculty of Medicine, Université de Montréal, Canada

B45 Meta-analytic and intrinsic functional connectivity mapping of lateral temporal cortex  
And Turken1, Timothy Herron1, Nina Dronkers1,2; 1Veterans Affairs Northern California Health Care System, 2University of California, Davis Medical School
B46  fNIRS investigation of the impact of age related physiological changes on the preservation of semantic word processing  
Malmoush Amiri1,2, Philippe Pouliot1,3, Paul-Olivier Leclerc4, Michèle Desjardins5, F. Lesage1,3 & Y. Joaquette4,5; 1Ecole Polytechnique of Montreal, 2Geriatric Institut of Montreal, 3University of Montreal, 4Montreal Heart Institut, 5University of Southern California

B47  Towards a neurophysiological characterization of the human comprehension system: Time-Frequency analysis of sentence and visual scene processing  
Anne-Lise Jouen1,2, Sullivan Hidot1,2, Carol Madden-Lombardi1,3, Jocelyne Ventre-Dominey1,2, Peter Ford Dominey1,2,3; 1INSERM Stem Cell and Brain Research Institute, Bron, France, 2University of Lyon, France, 3CNRS France

B48  Early magnetic brain responses to context-related presuppositions during speech perception  
Ingo Hertrich1, Anja Wuehle1, Mareike Kirsten1, Sonja Tiemann1, Sigrid Beck1, Bettina Rolke1; 1University of Tuebingen, Germany

B49  Top-down modulation of brain networks during discourse comprehension  
Jie Yang1, Michael Andric2, Susan Duncan1, Anna Holt1, Uri Hasson2, Emily Cooper1, Steven Small1; 1Brain Circuits Laboratory, Department of Neurology, University of California, Irvine, 2Center for Mind/Brain Sciences, The University of Trento, Italy, 3Helen Wills Neuroscience Institute, University of California, Berkeley

B51  Two Divided Visual Field ERP Investigations of Global Contextual Influence on Word Processing  
Tristan Davenport1, Seana Coulson1; 1UCSD

B52  Effects of Reference and Syntactic Ambiguity in Spoken Discourse  
 Shruti Dave1, Megan Boudewyn1, Matthew Traxler1, Tamara Swaab1; 1University of California, Davis

B53  Costs and benefits of prediction: late ERP effects of lexical prediction error in noun phrases  
Ellen Lau1, Allison Fogel1, Tania Delgado1; 1University of Maryland

B54  A critical role for the angular gyrus in combinatorial semantics: converging evidence from patients and healthy subjects  
Amy Price1, Michael Bonner1, Jonathan Peelle2, Murray Grossman1; 1University of Pennsylvania, 2Washington University in St. Louis

B55  The right to image: Hemispheric differences in the use of context and mental imagery to build meaning from words  
Hsu-Wen Huang1, Kara Federmeier2; 1National Taiwan Normal University, 2University of Illinois

B56  When meaning is not informative: Dissociating semantic composition from information processing in MEG  
Ellen O’Conner1, Liina Pylkkänen2; 1University of Southern California, 2New York University

B57  Reliability of gamma activity during semantic integration  
 Jona Sassenhagen1, Phillip Alday1; 1University of Marburg

B58  Broca’s area shows a distance effect for both filler-gap dependencies and backwards anaphora in fMRI  
William Matchin1, Jon Sprouse2, Gregory Hickok2; 1University of California, Irvine, 2University of Connecticut

B59  Neural Mechanisms Underlying the Computation of Hierarchical Tree Structures in Mathematics  
Tomoya Nakai1,2, Kuniyoshi L. Sakai1,2; 1Department of Basic Science, Graduate School of Arts and Sciences, The University of Tokyo, Japan, 2CREST, Japan Science and Technology Agency, Tokyo, Japan

B60  Syntactic violations for content versus function words in reading: ERP evidence  
Bradley T. Marcinek1, Karsten Steinhauser1,4, Phaedra Royle1,4, John E. Drury1, 1Stony Brook University, 2McGill University, 3University of Montreal, 4Center for Research on Brain, Language and Music

B61  Neural interfaces between morphology and syntax: Evidence from Russian  
Anastasia Klimovich-Smith1, Mirjana Bozic2, William Marslen-Wilson3; 1University of Cambridge, 2University of Cambridge, 3University of Cambridge

B62  Changes in neural oscillations during naturally-paced sentence processing  
Julie M. Schneider1, Alyson D. Abel1, Jagger McCord1, Mandy J. Maguire1; 1University of Texas at Dallas

B63  ERP evidence for gap identification and filler-gap association in wh-island contexts  
Dan Michel1, Robert Kluender1, Seana Coulson1; 1University of California, San Diego

B64  Prosodic production in right-hemisphere stroke patients: using temporal dynamics to characterize voice quality  
Ethan Weed1, Riccardo Fusaroli2; 1Aarhus University

B65  Executive & coordination deficits contribute to language processing in Parkinson disease  
Nicola Spotorno1, Stephanie Golob1, Giulia Porcari2, Robin Clark1, Corey McMillan1, Murray Grossman1; 1Department of Neurology, University of Pennsylvania School of Medicine, 2Department of Linguistics, University of Pennsylvania
B66 Structural and functional correlates of the left thalamus in dyslexia Garikoitz Lerma-Usabiaga1, Ileana Quiñones1, Cesar Caballero1, María P. Suarez-Coalla1, Jon A. Duñabeitia2, Manuel Carreiras1,2, Pedro M. Paz-Alonso3; 1Basque Center on Cognition, Brain and Language (BCBL), Donostia - San Sebastián, Spain, 2Universidad de Oviedo, Spain, 3IKERBASQUE, Basque Foundation for Science, Bilbao, Spain, 4UPV/EHU, Bilbao, Spain

B67 A DTI study of chronic post-stroke aphasia Sharon Geva1,2, Marta Correia3, Elizabeth A Warburton1; 1Department of Clinical Neurosciences, University of Cambridge, Addenbrooke’s Hospital, UK, 2Developmental Cognitive Neuroscience Unit, UCL Institute of Child Health, London, UK, 3MRC Cognition and Brain Sciences Unit, Cambridge, UK

B68 Individually-Targeted Transcranial Direct Current Stimulation Enhances Fluency in Patients with Chronic Non-Fluent Aphasia Catherine Norise1, Gabriella Garcia2, Olu Faseyitan1, David Copland1,2, Shiree Heath3, Sophia Van Hees1,2, Tracy Heath4,5,6, Greig de Zubicaray6; 1Centre for Clinical Research, University of Queensland, Australia, 2School of Health and Rehabilitation Sciences, University of Queensland, Australia, 3ARC Centre of Excellence in Cognition and its Disorders, 4School of Psychology, University of Queensland, Australia, 5School of Health and Rehabilitation Sciences, University of Queensland, Australia, 6School of Psychology, University of Queensland, Australia

B69 Reorganized effective connectivity associated with recovery from acute aphasia David Gow1,2,3, Bruna Olson1,2,4,2, David Caplan1,2,3, 1Massachusetts General Hospital, 2Department of Neurology, 3Brown University, 4Department of Neurology, Athinoula A. Martinos Center for Biomedical Imaging, Massachusetts General Hospital, Charlestown, MA

B70 Abnormal Subcortical Components of the Corticostriatal System in Young Adults with DLI: A Combined Structural MRI and DTI Study Joanna C. Lee1, Peggy C. Nopoulos1, J. Bruce Tomblin1; 1University of Iowa

B71 Neurobiological Change Following Intensive Therapy for Chronic Mild Aphasia: An fMRI Study Jennifer Mozeiko1, Emily Myers1,2, Carl Coelho1; 1University of Connecticut, 2Brown University

B72 Revisiting speech repetition with lesion-symptom mapping: contributions of insula, tempo-parietal cortices and the arcuate fasciculus Katie McMahon1, Adeen Flinker1, David Poeppel1; 1New York University

C1 Electrophysiological investigation of self-referential processing of emotionally laden language using a novel imagined-speaker paradigm Daniel J. Frost1, Marta Kutas2; 1University of California, San Diego

C2 Neural substrates of affective language processing: an event-related fMRI study Brian Castelluccio1, Jillian Schuh2, Emily Myers1, Inge-Marie Eigsti1; 1University of Connecticut, 2Medical College of Wisconsin

C3 Using information from direct disgust experience to distinguish novel disgust metaphors from neutral metaphors with fMRI pattern analysis Vesna Gamez-Djokic1, Lisa Aziz-Zadeh2, Srini Narayanan2, Benjamin Bergen3, Josh Davis3, Tong Sheng2; 1University of Southern California, 2University of California, Berkeley, 3University of California, San Diego

C4 When anticipation meets emotion: Top-down anticipation and bottom-up emotional word meaning impact early word processing similarly Vicky Tzuyin Lai1,2, Falk Huettig1; 1Max Planck Institute for Psycholinguistics Nijmegen, 2Donders Institute for Brain, Cognition, Behavior

C5 Social coordination limitations impact language comprehension in behavioral-variant frontotemporal dementia Stephanie Golob1, Teagan Bisbing1, Giulia Porcari1, Nicola Spotorno1, Robin Clark1, Murray Grossman1, Corey McMillan1; 1University of Pennsylvania

C6 Affective Priming Effect of Music on Emotional Prosody in Williams Syndrome Michael Pridmore1, Cyrille Magné1, Miriam Lense2, Reyna Gordon3, Alejandro Key2, Elisabeth Dykens2; 1Middle Tennessee State University, 2Vanderbilt University

Auditory Perception, Speech Perception, Audiovisual Integration

C7 Hemispheric contributions to auditory perception investigated by the modulation transfer function of speech Adeen Flinker1, David Poeppel1; 1New York University

C8 Neural oscillations, temporal modulation rate filters, and periodicity maps in human auditory cortex Gregory Hickok1, Alyssa Brewer1, Kourosh Saberi; 2Dept of Cognitive Sciences, University of California, Irvine

C9 A Computational Model of the Peripheral Auditory System from Cochlear Stimulation to Auditory Nerve Spiking Feng Rong1, Grant Walker1, Kristofer Carlson2,
C10  Causal Inference in Multisensory Speech Perception
John Magnotti, Wei Ji Ma, Michael Beauchamp; 1University of Texas Medical School at Houston, 2Baylor College of Medicine

C11  How common is the McGurk-MacDonald effect?
Debshila Basu Mallick, John F. Magnotti, Michael S. Beauchamp; 1Rice University, Houston, Texas, 2University of Texas Health Science Center At Houston

C12  MVPA of Phonetic Features During Speech Perception
Jessica Arsenault, Bradley Buchsbaum; 1Rotman Research Institute, 2University of Toronto

C13  A meta-analysis of semantic and syntactic processing in language comprehension
Patti Adank, Sylvia Vitello, Anna Woollams, Jennifer Rodd; 1Division of Psychology and Language Sciences, University College London (UCL), UK, 2School of Psychological Sciences, University of Manchester, UK

C14  Modality dependence in sentence level and word level processing: an fMRI study
Julia Udden, Annika Hulten, Karl Magnus Petersson, Peter Hagoort; 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

C15  Lexical tone processing in Chinese reading
Veronica Kwok, Li-Hai Tan; 1State Key Laboratory of Brain and Cognitive Sciences, University of Hong Kong, 2Department of Linguistics, University of Hong Kong

C16  Electrophysiological measurements of letter-sound congruency effects
Emily Codere, Zachary Fisher, Barry Gordon, Kerry Ledoux; 1Johns Hopkins University School of Medicine

C17  High gamma analysis of cortical responses to voice pitch feedback perturbation reveals network driving error correction.
Naomi S Kort, Srikantan S Nagarajan, John F Houde; 1University of California, San Francisco

C18  Monitoring of emotional information during spoken word production: an fMRI study
Katharina Sass, Katie McMahon, Kori Johnson, Greig de Zubicaray; 1The University of Queensland

C19  Second language communication and anxiety: An fMRI study
Hyeonjong Jeong, Motoaki Sugiuira, Yuko Sassa, Hiroshi Hashizume, Wataru Suzuki, Ryuta Kawashima; 1Tohoku University, 2Miyagi University of Education

C20  The Effects of Perceived Similarity and Training on Novel Speech Acquisition: an fMRI study
Victoria Wagner, Ferenc Bunta, Pilar Archila-Suerte, Arturo E. Hernandez; 1University of Houston

C21  Characterizing preoperative hemispheric asymmetries of cortical structures and language functions in left-hemisphere tumor patients via navigated transcranial magnetic stimulation
Noriko Tanigawa, Nico Sollmann, Theresa Hauck, Sebastian Ille, Bernhard Meyer, Florian Ringel, Sandro M. Krieg; 1University of Oxford, 2Technical University of Munich

C22  Neural basis of the word frequency effect in a picture naming task.
Ana Sanjuán, María-Ángeles Palomar-García, Kristof Strijkers, Noelia Ventura-Campos, Elisenda Buecheki, César Ávila, Albert Costa; 1Grupo de Neuropsicología y Neuroimagen Funcional, Departamento de Psicología Básica, Clínica y Psicobiología, Universitat Jaume I, Castellon, Spain, 2Language Group, Wellcome Trust Centre for Neuroimaging, University College of London, UK, 3Departamento de Psicología Básica, Universitat de Barcelona, Spain

Orthographic Processing, Writing, Spelling

C23  The Role of the Visual Word Form Area in Spelling: fMRI Evidence for a Lexical Route from Phonology to Orthography
Philipp Ludersdorfer, Martin Kronbichler, Heinz Wimmer; 1Centre for Neurocognitive Research and Department of Psychology, University of Salzburg, Austria, 2Neuroscience Institute, Christian-Doppler-Clinic, Paracelsus Medical University Salzburg, Austria

C24  Suppression of Phonological Recoding for High Frequency Words: Evidence from Single Unit Firing in Human Left Superior Temporal Gyrus
Erik Kaestner, Alexander Chai, Sydney Cash, Eric Halgren; 1University of California, San Diego, 2Massachusetts General Hospital, Boston

C25  An ERP investigation of adjacent and non-adjacent transposed-letter priming
Maria Ktori, Thomas Hannagan, Brechtsje Kingma, Phillip Holcomb, Jonathan Grainger; 1CNRS and Aix-Marseille University, Marseille, France, 2University of Groningen, Groningen, The Netherlands, 3Tufts University, Medford, Massachusetts, 4San Diego State University
C26 Decoding Letter Position in Word Reading  Ori Ossmy1,2, Michal Ben-Shachar3,4, Roy Mukamel1,2; 1Sagal School of Neuroscience, Tel-Aviv University, 2School of Psychological Sciences, Tel-Aviv University, 3The Gonda Multidisciplinary Brain Research Center, Bar-Ilan University, 4English Department, Linguistics Division, Bar-Ilan University

C27 The Visual Word Form Area is Functionally Connected to the Language System: The Importance of Individual Variability  W. Dale Stevens1, Cynthia S. Peng1, Alex Martin1; 1National Institute of Mental Health, National Institutes of Health, Bethesda, MD, US

Language Development, Plasticity, Multilingualism

C28 Proficiency and L1 background effects on L2 prosodic processing: ERP evidence from German and Chinese learners of English  Stefanie Nickels1,2, Karsten Steinhauser1,2; 1McGill University, 2Centre for Research on Brain, Language and Music (CRBLM)

C29 How our emotions affect our first and second language? An ERP study  Horacio A. Barber1, Pedro-Javier López-Pérez1, Maartje van der Meij1; 1University of La Laguna, Spain

C30 Culture-specific inter-lexical relations in the bilingual's lexicon: an ERP study  Nina Kazanina1, Tingting Xu2; 1University of Bristol, 2Shanghai Yunqishi Management Consulting

C31 Shape or detail? An electrophysiological investigation of object recognition processes related to language development in 20-month-olds  Kristina Borgstrom1, Janne von Koss Torkildsen1, Magnus Lindgren1; 1Lund University, Sweden, 2University of Bergen, Norway

C32 When shark is closer to bat than to whale: The structure of second language lexicon  Katy Borodkin1, Yoed N. Kenett1, Miriam Faust1, Nira Meshal1; 1Bar-Ilan University

C33 N400 evidence of word learning from context in adolescent children  Mandy Maguire1, Alyson Abel1; 1University of Texas at Dallas, Callier Center for Communication Disorders

C34 The influence of imagery-based training and individual variability on foreign vocabulary learning  Kailyn A. L. Bradley1, Arturo E. Hernandez2; 1University of Houston

C35 Timing is everything in the bilingual brain: The effect of language exposure on using meaning and language membership information during lexical access  Shukhan Ng1, Nicole Wicha1,2; 1University of Texas at San Antonio, 2University of Texas Health Science Center at San Antonio

C36 Lateralization and Language Creativity: Developmental Transition from Adolescence to Young Adulthood  Smadar Patael1, Katy Borodkin1, Miriam Faust1; 1Bar-Ilan University

C37 Cross-language verb-noun priming in the bilingual brain  Isel Frederic1,2, Engel Andreas K2, Schneider Till R2; 1Institute of Psychology, Sorbonne Paris Cité - Paris Descartes University, France, 2Department of Neuropsychology and Pathophysiology, University Medical Center Hamburg-Eppendorf, Hamburg, Germany

Lexical Semantics

C38 Non-Motoric Aspects of Action Concepts  Anna Leshinskaya1, Alfonso Caramazza1,2; 1Harvard University, 2University of Trento

C39 2 x 3 = six: An ERP study of written words in multiplication-fact retrieval  Amanda Martinez-Lincoln1, Charlie Giattino1, Curtiss Chapman3, Nicole Wicha4; 1The University of Texas at San Antonio, 2Duke University, 3Rice University, 4The University of Texas Health Science Center - San Antonio

C40 Differential time-course for prediction and integration during sentence comprehension  T. Brothers1, T. Y. Swaab1, M. Traxler4; 1University of California, Davis

C41 Repetition of form and meaning in sentence contexts: An ERP study of repetition priming using ambiguous words  Mariya Chernenok1, Barry Gordon1, Kerry Ledoux3; 1The Johns Hopkins University School of Medicine

C42 Semantic priming in temporal lobe epilepsy: an ERP study.  Amanda Guadalupe jaimes Bautista1,2, Mario A. Rodríguez Camacho2, Yaneth Rodriguez Agudelo1, Iris Martinez Juárez1, Rubén Torres Agustín1,2; 1Instituto Nacional de Neurología y Neurocirugía de México, 2Universidad Nacional Autónoma de México

C43 White matter disease correlates with lexical retrieval deficits in primary progressive aphasia  John P. Powers1, Corey T. McMillan1, Caroline C. Brun1, Paul A. Yushkevich1, James C. Gee4, Murray Grossman1; 1University of Pennsylvania

C44 White matter structural connectivity underlying semantic processing: Evidence from brain damaged patients  Zaizhu Han1, Yijun Ma2, Gaolong Gong1, Yong He1, Alfonso Caramazza2,3, Yanchao Bi1; 1Beijing Normal University, China, 2Harvard University, 3University of Trento, Italy

The Society for the Neurobiology of Language
C45  The degree of imageability of abstract nouns and verbs influences processing in Alzheimer’s disease and healthy aging  Jet M. J. Vonk1,2, Roel Jonkers1, Loraine K. Obera; 1University of Groningen, 2The Graduate School and University Center of the City University of New York
C46  Damage to gray and white matter is associated with distinct semantic interference effects in language production and comprehension.  Denise Y. Harvey, A. Cris Hamilton1, Tatiana T. Schmurl; 2Rice University
C47  Effects of Contextual Priming on Novel Word Learning in Healthy Adults  Amy Rodriguez1, Emma Finch1, Anna MacDonald1, David Copland1; 1The University of Queensland

Syntax, Morphology
C48  Individual differences in discrimination of musical rhythms relate to expressive language skills in children  Reyna Gordon1, Carolyn Shitvers1,2, Elizabeth Wieland1, Sonja Kotz2, Paul Yoder1, J. Devin McAuley; 1Vanderbilt University, 2Michigan State University, 3Max Planck Institute for Human Cognitive and Brain Sciences
C49  Actor-Undergoer Asymmetry in Learning Case Marking Strategies  Luming Wang1, Matthias Schlesewsky1, Kamal Kumar Choudhary1, Ina Bornkessel-Schlesewsky1; 1Department of Germanic Linguistics, University of Marburg, 2Department of English and Linguistics, Johannes Gutenberg-University Mainz, 3Department of Humanities and Social Sciences, Indian Institute of Technology Ropar
C50  Matching utterances with visual scenes: neurocomputational investigation of the language-vision interface  Victor Barrès1, Michael Arbib1; 1UCL
C51  The Role of Syntagmatic and Paradigmatic Relations in Noun-Verb Dissociation: an fMRI study  Roza Vlasova1, Tatiana Akhutina1, Ekaterina Pechenko2, Valentin Snitsyn1, Elena Mershina2, Maria Ivanova1; 1National Research University Higher School of Economics, 2Federal Center of Medicine and Rehabilitation, Lomonosov Moscow State University, 3Institute of Practical Psychology and Psychoanalysis
C52  Patients with Lesions in Broca’s Area can Produce Syntactically-Complex Sentences  Francesca Beghin1,3, Nina Dronkers1,2; 1VA Northern California Health Care System, 2University of California, Davis, 3University of Padova, Italy
C53  Introducing grammar tests to the intracarotid amobarbital procedure  Monika Polczynska1,3, Susan Curtiss1, Mike Jones1, Celia Vigil1, Patricia Walshaw2, Prabha Siddarth1, Jeni Yamada3, Susan Bookheimer1; 1UCLA, 2Adam Mickiewicz University, 3Independent Scholar

Control, Selection, Working Memory
C54  Response time and language cortex response in a one-back memory task for words depends on trial history further back  Mikkel Wallentin1,2, Ian Rynne3, Jíkup L. D. Michaeelsen; 1Department of Functionally Integrative Neuroscience, Aarhus University, 2Center for Semiotics, Aarhus University
C55  If so many are “few”, how few are “many”?  Stefan Heim1,2, Corey T. McMillian3, Robin Clark4, Stephanie Golob5, Nam Eun Min1, Christopher Olm6, John Powers7, Murray Grossman8, 1RWTH Aachen University, Germany, 2Research Centre Julich, Germany, 3JARA - Translational Brain Medicine, Julich and Aachen, Germany, 4University of Pennsylvania, US
C56  Language and Task Switching in the Bilingual Brain: Bilinguals Are Forever in a Stay Trial  Gali H. Weissberger1, Tamar H. Gollani2, Mark W. Bondi3, Christina E. Wierenga3, 1San Diego State University and University of California, San Diego Joint Doctoral Program in Clinical Psychology, 2University of California, San Diego, 3VA San Diego Healthcare System
C57  Conceptual proposition mechanisms in primary progressive dynamic aphasia with Parkinsonism  Gail Robinson1; 1School of Psychology, The University of Queensland, Brisbane Australia, 2National Hospital for Neurology and Neurosurgery, London UK
C58  Characterizing Alexia and Aphasia Using Eye-Movements  Kimberly Smith1, Joseph Schmidt1, John Henderson1, Julius Fridriksson1; 1University of South Carolina
C59  Common but not familiar: hippocampal amnesia reduces subjective familiarity of common words  Melissa Duff, Nathaniel Klooster4, David Warren5; 1University of Iowa
C60  Deficits in semantic processing and verbal memory correlate with imaging biomarkers: A multimodal imaging study for Alzheimer’s disease  Fan-Pei Gloria Yang1, Ya-Fang Chen2, Ta-Fu Chen3, Tien-Wen Tseng4, Jia-Chun Chen5,6, Kai-Yuan Tzeng7,8, Mau-Sun Hua3,4, Ming-Jang Chiu1,4,7,8, 1Department of Foreign Languages and Literature, National Tsing Hua University, Taiwan, 2Department of Medical Imaging, College of Medicine, National Taiwan University, 3Department of Psychology and College of Medicine, National Taiwan University, 4Department of Biology, National Taiwan University, 5Department of Psychology, National Taiwan University, 6Department of Nuclear Medicine, National Taiwan University Hospital, College of Medicine, 7Molecular Imaging Center, National Taiwan University, 8Institute of Brain and Mind Sciences, College of Medicine, National Taiwan University, 9Graduate Institute of Biomedical Engineering and Bio-informatics, National Taiwan University

Poster Session C, Thursday, November 7, 3:45 - 5:45 pm
SNL 2013 Program

The Society for the Neurobiology of Language
C61 What does the left prefrontal cortex do for sentence production? Evidence from tDCS  
Nazbanou Nozari1, Jennifer Arnold2, Sharon Thompson-Schill1; 1University of Pennsylvania, 2University of North Carolina at Chapel Hill

C62 Gamma responses are larger during picture naming of animals compared to that of non-animals  
Eishi Asano1,2, Katsuki Kojima1,2, Erik C Brown1,2, Naoyuki Matsuzaki1,2; 1Children’s Hospital of Michigan, 2Wayne State University

Language Disorders

C63 Relations between Aging, Memory and Language in Amnesia: Longitudinal Data from Amnesic H.M. on Recall of Phonological, Orthographic and Lexical-semantic Information  
Don MacKay1, Laura Johnson; 1University of California, Los Angeles

C64 Large-scale neural networks’ dynamics in language and recovery from aphasia: Functional connectivity data  
Francis Tremblay1,2, Édith Durand1,2, Karine Marcotte1,2, Ana Inés Ansaldo1,2; 1Centre de Recherche de l’Institut Universitaire de Gériatrie de Montréal, 2Université de Montréal

C65 A role for the left temporoparietal cortex in abstract concept representation and semantic relationships  
Laura M. Skipper1, Dan Mirman2, Ingrid R. Olson1; 1Temple University, 2Moss Rehabilitation Research Institute

C66 The importance of the ipsi- and contralesional frontal and temporal regions in language recovery in aphasia  
Jordyn A. Sims1, Kushal Kapse1, Peter Glynn1, Swathi Kiran1; 1Aphasia Research Laboratory, Boston University, Sargent College

C67 Using a Multivariate Multimodal Framework to Define the Neuroanatomic Basis for Confrontation Naming in Frontotemporal Degeneration  
Philip Cook1, Corey McMillan2, Brian Avants3, Jonathan Peelle2, James Gee2, Murray Grossman1; 1Dept of Radiology, University of Pennsylvania, 2Dept of Neurology, University of Pennsylvania, 3Dept of Otolaryngology, Washington U of St. Louis

C68 Neural Correlates of the Effect of Speech Rate on Lexical Access and Syntactic Dependencies During Sentence Comprehension  
Michelle Ferrill1, Matthew Walenski2, Corianne Rogalsky3, Tracy Love1,2; 1SDSU/UCSD Joint Doctoral Program in Language and Communicative Disorders, 2San Diego State University, 3University of California, Irvine

C69 Involvement of hippocampal subfields in memory performance in semantic variant and logopenic variant primary progressive aphasia  
Khaing Win1,2, John Pluta2, Paul Yushkevich2, David Wolk1,2, Murray Grossman1,2; 1Neuroscience Graduate Group, University of Pennsylvania, 2Penn Image Computing and Science Lab, University of Pennsylvania, 3Department of Neurology, Hospital of University of Pennsylvania

C70 Three Critical Lesion Sites for Persistent Speech Production Deficits After Stroke  
Thomas Hope1, Mohamed Seghier1, Louise Lim1, Alex Leff, Cathy Price1; 1Wellcome Trust Centre for Neuroimaging, University College London, UK, 2Institute of Cognitive Neuroscience, University College London, UK

C71 Voxel-based lesion-symptom mapping of naming, fluency and repetition deficits after surgical resection  
Stephen M. Wilson1, Daniel Lam2, Miranda Babik2, Edward F. Chang2; 1University of Arizona, 2University of California, San Francisco

C72 Effects of the Metabolic Syndrome on Lexical Retrieval and Sentence Processing in Aging  
Dalia Cahana-Amatay3,1, Auron Spir01,2, Jason Cohen2, Emmanuel Ojo1,2, Jesse Sayers1,3, Abigail Oveis1,3, Loraine Oberl1,3,4, Martin Albert1,3; 1Boston University School of Medicine, 2Boston University School of Public Health, 3VA Boston Healthcare System, 4City University of New York, 5Albert Einstein College of Medicine

C73 The relationship between naming treatment outcomes and resting state functional connectivity in post-stroke anoma  
Sophia van Hees1,2, Katie McMahon3, Anthony Angwin2, Greig de Zubicaray2, Stephen Read3, David Copland1,2,6; 1Centre for Clinical Research, University of Queensland, Brisbane, Australia, 2School of Rehabilitation Sciences, University of Queensland, Brisbane, Australia, 3Centre for Advanced Imaging, University of Queensland, Brisbane, Australia, 4School of Psychology, University of Queensland, Brisbane, Australia, 5Royal Brisbane and Women’s Hospital, Neurology, Brisbane, Australia, 6Centre for Clinical Research Excellence in Aphasia Rehabilitation

Poster Session D

Friday, November 8, 9:50 – 11:50 am, Emerald Ballroom

Auditory Perception, Speech Perception, Audiovisual Integration

D1 McGurk Effect Perceivers Are More Likely to Fixate the Mouth of the Talker  
Michael Beauchamp1, Edgar Walker1, Demet Gurler2; 1University of Texas Medical School at Houston, 2Baylor College of Medicine

D2 Adjust the expectation of the phonetic form of words according to a talker’s voice: A phonological mismatch negativity study  
Caicai Zhang1,2, James Magnuson3,4, Nicole Landi5,4, Gang Peng1,2, William S-Y. Wang1,2; 1Language and Cognition Laboratory, Department of Linguistics and Modern Languages, The Chinese University of Hong Kong, Hong
D3 Phase reset during speech and non-speech discrimination revealed by independent component analysis of event-related EEG  Andrew Bowers1, Tim Saltuklaroglu2, Ashley Harkrider2; 1University of Arkansas, Department of Communication Disorders, 2University of Tennessee, Health Science Center, Department of Audiology and Speech-Pathology

D4 Effects of Production Training and Perception Training on Lexical Tone Perception - A behavioral and ERP study  Shuang Lu1, Eric Holgate2, Ratree Wayland3, Edith Kaan1; 1University of Florida, 2Haskins Laboratories

D5 Grey matter volume in SMA predicts individual differences in auditory imagery  Nadine Lavan1, Cesar Lima1,2, Andrae Halpern3, Sam Evans1, Zarina Agnew2, Sophie Scott1; 1Institute of Cognitive Neuroscience, University College London, 2Faculty of Psychology and Education, University of Porto, 3Psychology Department, Bucknell University

D6 Brain dynamics of processing speech sound omissions in predictive and non-predictive contexts  Mathias Scharinger1, Alexandra Bendixen2, Antje Strauß1, Molly Henry1, Björn Herrmann1, Jonas Obleser1; 1Max Planck Research Group “Auditory Cognition”, Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany, 2Institute for Psychophysiology of Hearing, University of Oldenburg, Germany

D7 Meta-analytic connectivity modeling (MACM) of anterior vs. posterior superior temporal sulcus  Laura Erickson1, Josef Rauschecker1, Peter Turkeltaub1; 1Georgetown University

D8 Functional and structural brain aging and speech perception: new evidence  Pascale Tremblay1,2, Mylène Bilodeau-Mercure1,2, Marc Satô3, Catherine Lortie1,2, Matthieu Guittón1,2; 1Institut Universitaire en Santé Mentale de Québec, 2Université Laval, 3GIPSA-lab, CNRS and Université de Grenoble

D9 Tracking of speech rhythm by neuronal oscillations: an MEG study on natural fast speech perception  Hannu Laaksonen1,2, Karim Jerbi2, Véronique Boulenger1; 1Laboratoire Dynamique du Langage, CNRS/Université Lyon, France, 2Lyon Neuroscience Research Center, University Lyon, France

D10 Eye position influences on auditory processes measured from within the external ear canal  Kurtis Gruters1,2, Christopher Shera1, Jennifer M. Groh1,2,3; 1Center for Cognitive Neuroscience, Duke University, 2Dept. of Psychology and Neuroscience, Duke University, 3Dept. of Neurobiology, Duke University, 4Dept. of Otology & Laryngology and Health Sciences & Technology, Harvard Medical School

D11 Perception of synthesized Russian back vowels.  Tatiana Smirnova1, Nadezda Andreeva2; 1Skolkovo Institute of Science and Technology, 2Saint Petersburg State University

Motor Control, Speech Production, Sensorimotor Integration

D12 Challenging the Role of the Anterior Insula in Motor Speech Production: Further Evidence from Case Studies  Alexandra Basilakos1, Dana Moser3, Paul Fillmore2, Julius Fridriksson1; 1University of South Carolina, 2University of New Hampshire

D13 Lesion correlates of quantitative speech measures in left hemisphere stroke  Adam Jacks1, Katarina Haley1, Julius Fridriksson2, Heidi Roth3; 1The University of North Carolina at Chapel Hill, 2University of South Carolina

D14 The Superior Precentral Gyrus of the Insula (SPGI) does not selectively support articulation  Evelina Fedorenko1, Paul Fillmore2, Kimberly Smith3, Julius Fridriksson2; 1MIT, 2University of South Carolina

D15 Combining psycholinguistic and motor control models of speech production  Grant Walker1, Gregory Hickok1; 1University of California, Irvine

D16 fMRI evidence for monitoring and inhibition of inappropriate words in speech production.  Samuel J. Hansen1, Katie L. McMahon2, Greig I. de Zubicaray1; 1University of Queensland, School of Psychology, 2University of Queensland, Centre for Advanced Imaging

D17 Minimal neurofunctional changes associated with high level of verbal fluency performance in aging  Yannick Marsolais1,2, Yves Joanette1,2; 1Centre de recherche, Institut universitaire de gériatrie de Montréal, Québec, Canada, 2Département de psychologie, Université de Montréal, Québec, Canada, 3Faculté de médecine, Université de Montréal, Québec, Canada

D18 Brain networks for object naming: Comparison of MEG with hemodynamic imaging and lesion data  Panagiotis Simos1, Abdou Mousas3, Roozbeh Rezaie2, Shalini Narayana2, Andrew Papanicolaou3; 1University of Crete, Greece, 2University of Tennessee Health Science Center

D19 Beta EEG activities reflect a close relationship between language comprehension and motor function  Sabine Weiss1, Horst M. Müller1; 1Bielefeld University

The Society for the Neurobiology of Language
Orthographic Processing, Writing, Spelling

D20 Examining the effects of lexical quality on masked form priming effects using event-related potentials Adeete Bhide1, Joseph Stafura1, Ben Rickles1, Charles Perfetti1; 1University of Pittsburgh

D21 Building a Better Network: artificial orthographies and the serial decoding scaffold Elliot Collins1, Michelle Moore2, Corrine Durisko2, Julie Fiez2; 1University of Pittsburgh, 2West Virginia University

D22 Focus on the word: Early effects of repetition are modulated by readers’ goals Giulia Christine Pancani, Joseph Hopfinger1, Peter Gordon1; 1The University of North Carolina at Chapel Hill

Language Development, Plasticity, Multilingualism

D25 Word Inversion Reveals Native Language Influences on Lexical Organization in a Second Language Travis Simcox1, Gal Ben-Yehuda1, Charles Perfetti1, Julie Fiez2; 1University of Pittsburgh, 2The Open University of Israel

D26 Differential electrophysiological effects of L1 word processing as a function of pre-exposure to L2 wordforms He Pu1, Katherine J. Midgley1,2, Phillip J. Holcomb1,2; 1Tufts University, 2San Diego State University

D27 Implicit sublexical access to the first language: An ERP study on Chinese-English bilinguals Jin Xue1, Jie Yang1; 1School of English Language, Literature and Culture and Center for Language and Cognition, Beijing International Studies University, China, 2Department of Neurology, University of California, Irvine

D28 Does phonology influence word learning in a visually unfamiliar L2? A training study with ERP Yen Na Yum1,2, Katherine J. Midgley1,3, Jonathan Grainger4, Phillip J. Holcomb1,2; 1Tufts University, 2University of Hong Kong, 3San Diego State University, 4CNRS & Aixs-Marseille University

D29 Learning to read shapes the orthography consistency effect in Chinese spoken word recognition Yu-Lin Tseng1, Wen-Fan Chen2, Chun-Hsien Hsu2, Jie-Li Tsai2, Chia-Ying Lee1,2; 1Institute of Neuroscience, National Yang-Ming University, Taiwan, 2Institute of Linguistics, Academia Sinica, Taiwan, 3Department of Psychology, National Chengchi University, Taiwan

D30 Modulation of temporal cortical and striatal activity during recognition of novel words learnt with the dopamine precursor levodopa Alicia Rawlings1, Katie McMahon1, Anna MacDonald1, Emma Finch3, Peter Silburn1, 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 Science, University of Queensland, St. Lucia, Australia, 4Department of Psychiatry, Cambridge University, UK

D31 Neural language processing in adolescent first-language learners: Longitudinal case studies in American Sign Language Naja Ferjan Ramirez1, Matthew Leonard1, Christina Torres1, Eric Halgren1, Rachel Magbry1; 1University of California, San Diego, 2University of California, San Francisco

D32 Neural processing of written language in deaf readers: An event-related potential analysis Alison S. Mehravari1, Lee Osterhout1; 1University of Washington

Lexical Semantics

D33 Object-specific coding in human perirhinal cortex is modulated by semantic confusability Alex Clarke1, Lorraine K Tyler1; 1University of Cambridge

D34 Semantic Word Processing Recruits Cortical Areas Involved in the Integration of Sensory-Motor Information Leonardo Fernandino1, Jeffrey Binder1, Rutvik Desai1, Suzanne Pendl1, Colin Humphries1, Lisa Conant1, Mark Seidenberg1, 1Medical College of Wisconsin, 2University of South Carolina, 3University of Wisconsin, Madison

D35 Cued word-retrieval as a nonhomogeneous Poisson process: Evidence from inter-response intervals in semantic cued-word recall tasks Kyongje Sung1, David Schretlen1, Barry Gordon1; 1The Johns Hopkins University School of Medicine

D36 The role of the inferior parietal lobule for integrating meanings with orthographic similarity Shu-Hui Lee1, Tai-Li Chou1; 1National Taiwan University

D37 Study of the human retrosplenial cortex during auditory and visual naming through grouped electrocorticography and cortical stimulation mapping Cihan Kadipasagolu1, Tom Pieters1, Vatche Babayan1, Christopher Conner1, Nitin Tandon1; 1Vivian Smith Dept. Neurosurgery, UT Houston

D38 Spatial Arrangement of Vertically Related Word Pairs affects the N400 Component Cyrille Magne1, Tyler Hubbard1, William Langston1; 1Middle Tennessee State University
Discourse, Combinatorial Semantics

D40  Semantic illusions reveal cross-linguistic differences in auditory sentence processing: Evidence from EEG and fMRI  Sarah Tune1, Steven L. Small2, Arne Nagels1, Matthias Schlessewsky3, Ina Bornkessel-Schlesewsky1; 1University of Marburg, Germany, 2University of California, San Diego

D41  Predictability and Plausibility in Sentence Comprehension: An ERP Study  Megan D. Bardolph1, Seana Coulson1; 1University of California, San Diego

D42  The role of left anterior temporal lobe in semantic integration: Evidence from Event-Related Optical Signals  Jian Huang1,2, Suiping Wang1, Hsuan-Chih Chen1; 1South China Normal University, Guangzhou, China, 2Chinese University of Hong Kong, Hong Kong S.A.R., China

D43  Pre-Activation of Semantic Features in Spoken Discourse  Megan A. Boudewyn1, Debra L. Long1, Tamara Y. Swaab1; 1University of California, Davis

D44  Sentence processing reflected in oscillatory and event-related brain activity  Nietzsche Lam1,2, Annika Hultén3, Julia Uddén3, Jan-Mathis Schoffelen1,2, 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 Neuromaging, Nijmegen, The Netherlands

D45  A tale of two hubs: a multi-voxel similarity analysis of semantic composition types in left anterior temporal lobe and angular gyrus  Christine Boylan1, John C. Trueswell1, Sharon L. Thompson-Schill1; 1University of Pennsylvania

D46  Conceptual combination vs. numeral quantification in the left anterior temporal lobe: MEG evidence from production and comprehension  Paul Del Prato1,2, Liina Pylkkänen1,2; 1NYU, 2NYU Abu Dhabi

Syntax, Morphology

D47  Individual Performance on the Raven Matrices Predicts Brain Responses to Visual Word Category Violation  Nicolas Bourguignon1,2, Karsten Steinhauser1,2; 1École d’orthophonie et d’audiologie, Université de Montréal, 2Laboratoire de la Parole, CHU Ste-Justine, Université de Montréal, 3Neurocognition of Language Laboratory, School of Communication Sciences and Disorders, McGill University, 4Center for Research on the Brain, Language and Music, McGill University

D48  Dimensions of argument structure complexity: Evidence from fMRI  Jennifer Mack1, Aya Meltzer-Asscher2, Elena Barbieri1, Ellen Fitzmorris1, Cynthia K. Thompson1; 1Northwestern University, 2Tel Aviv University

D49  Morpho-syntax and the aging brain: An ERP study of sentence comprehension in older adult Spanish speakers  Alondra Chaire1, Viridiana Estrada1, Nicole Wicha2; 1The University of Texas at San Antonio, 2The University of Texas Health Science Center - San Antonio

D50  Sentence Processing: Reflexives vs Syntactic Movement. An ERP Study  Ruben Torres Agustín1,2, Mario A. Rodriguez Camacho1, Juan F. Silva Pereyra2, Yaneth Rodriguez Aguado1, Amanda G. Bautista1, Martha Alejandra Gomez Lopez1; 1National Institute of Neurology and Neurosurgery, Mexico, 2National Autonomous University of Mexico

D51  ERP responses to portioning and sorting in Icelandic: contrasting coercion with silent syntax  Drew Trotter1, Matthew Whelpton1, Pórhalla Guðmundsdóttir Beck2, Curt Anderson1, Joan Maling2, Alan Beretta1; 1Michigan State University, 2University of Iceland, 3Brandeis University

Control, Selection, Working Memory

D52  Graded specialisation for words and pictures in prefrontal cortex: An fMRI investigation of semantic and linguistic control across tasks and modalities  Beth Jefferies1, Katya Krieger-Redwood1, Catarina Teige1, James Davey1; 1University of York, UK

D53  Cerebral organization of verbal associations: Is prior semantic representation important?  Michael Saling1, Leasha Lillywhite1,2, Richard Masterton2, Shawna Farquharson2, Graeme Jackson1,2; 1The University of Melbourne, 2Brain Research Institute and Florey Neuroscience Institutes, Austin, Melbourne

D54  Narrowing in on what’s relevant: Perturbing Wernicke’s area perturbs task-relevant representations  Lynn Perry1, Gary Lupyan1; 1University of Wisconsin-Madison

D55  A common neural basis for syntactic and non-syntactic conflict-control  Nina S. Hsu1,2,3, Susanne M. Jaeggi1,2,3, Jared M. Novick2; 1Center for Advanced Study of Language, University of Maryland, College Park, 2Program in Neuroscience and Cognitive Science, University of Maryland, College Park, 3Department of Psychology, University of Maryland, College Park, 4School of Education, University of California, Irvine
D65 White matter tracts sustaining speech in primary progressive aphasia  
Maria Luisa Mandelli\textsuperscript{1}, Eduardo Caceres\textsuperscript{2}, Richard J Benney\textsuperscript{1}, Bagrat Amirbekian\textsuperscript{2,3}, Maya L Henry\textsuperscript{1}, Miranda Babiak\textsuperscript{1}, Nikolaus Block\textsuperscript{1}, Christa Watson\textsuperscript{1}, Bruce L Miller\textsuperscript{1}, Roland G Henry\textsuperscript{2,3}, Maria Luisa Gorno-Tempini\textsuperscript{1}; 1Memory and Aging Center University of California, San Francisco, 2University of California, San Francisco, 3Graduate Group in Bioengineering, University of California, Berkeley

D66 The effect of music therapy for a person with nonfluent aphasia: a neurobiological perspective  
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D67 tDCS alters lateralization of reading-related activity in a case of pure alexia  
Elizabeth H. Lacey\textsuperscript{1,2}, Xiong Jiang\textsuperscript{1}, Sarah F. Snider\textsuperscript{1}, Rhonda B. Friedman\textsuperscript{1}, Peter E. Turkeltaub\textsuperscript{1,2}; 1Georgetown University, 2MedStar National Rehabilitation Hospital

D68 Brain routes for reading in adults with and without autism  
Rachel Moseley\textsuperscript{1}, Friedemann Pulvermuller\textsuperscript{2}, Yury Shtyrov\textsuperscript{1,2,4}; 1MRC Cognition and Brain Sciences Unit, Cambridge, UK, 2Brain Language Laboratory, Free University, Berlin, Germany, 3Centre for Functionally Integrative Neuroscience, Aarhus University, Denmark, 4Centre for Languages and Literature, Lund University, Sweden

D69 Functional and Structural Connectivity across Levels of Language in Children with Dysgraphia  
Todd Richards\textsuperscript{1}, Thomas Grabowski\textsuperscript{1}, Katie Askren\textsuperscript{1}, Peter Boord\textsuperscript{1}, Kevin Yagle\textsuperscript{1}, Zoe Mastre\textsuperscript{1}, Frederick Reitz\textsuperscript{1}, Olivia Welker\textsuperscript{1}, Desiree Gulliford\textsuperscript{1}, Liza Young\textsuperscript{1}, Elliot Collins\textsuperscript{1}, Virginia Berninger\textsuperscript{1}; 1University of Washington

D70 Functional reorganization of orthographic networks subsequent to neural injury  
Jeremy Purcell\textsuperscript{1}, Brenda Rapp\textsuperscript{1}; 1Johns Hopkins University, Baltimore, MD

D71 Characteristics of language dysfunction and cortical degeneration in patients with early stage amyotrophic lateral sclerosis (ALS)  
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D72 Automatic neural discrimination of changes in complex spoken words in dyslexic children  
Lilli Kimppa\textsuperscript{1,2}, Eino Partanen\textsuperscript{1,2}, Kimmo Alho\textsuperscript{1,3}, Synnöve Carlsson\textsuperscript{1}, Teija Kujala\textsuperscript{1,2,5}; 1University of Helsinki, Finland, 2Cognitive Brain Research Unit, 3General Psychology Division, 4O.V. Lounasmaa Laboratory, Aalto University School of Science, Finland, 5CICERO Learning
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Gesture, Prosody, Social and Emotional Processes

E1 Translating foreign language vocabulary activates visual and motor areas after learning with enrichment
Katja Martina Mayer1, Izzet Burak Yildiz1,2, Manuela Macedonia1,3, Katharina von Kriegstein1,4; 1Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany, 2College de France, Paris, 3Johannes Kepler University Linz, Austria, 4Humboldt University of Berlin, Germany

E2 Influence of Word Stress Sensitivity on a Visual Lexical Decision Task
Cyrille Magne1, Michael Pridmore1, Nicole Brunas1; 1Middle Tennessee State University

E3 A Common Functional Network for Overt Production of Speech and Gesture
Lars Marstaller1,2, Hana Burianová1,2,3; 1Department of Cognitive Science, Macquarie University, Sydney, Australia, 2ARC Centre of Excellence in Cognition and its Disorders, Macquarie University, Sydney, Australia, 3Centre for Advanced Imaging, University of Queensland, Brisbane, Australia

E4 Non-linear dynamics of speech and voice in schizophrenia
Riccardo Fusaroli1,2,3, Ethan Weed1,2,4, Arnudis Simonsen1,2, Vibeke Bliksted2; 1Center for Semiotics, Aarhus University, 2Interacting Minds Center, Aarhus University, 3Center for Functionally Integrative Neuroscience, Aarhus University, 4Linguistics, Aarhus University, 5Department of General Psychiatry, Aarhus University Hospital

E5 Neural correlates of gesture-syntax interaction.
Thomas C. Gunter1, leon Kroczek1, Henning Holle2, Angela D. Friederici1; 1Max-Planck-Institute for Human Cognitive and Brain Sciences, Leipzig, Germany, 2Department of Psychology, University of Hull, UK

E6 Size matters: Graded influence of prosodic boundaries on sentence processing
Efrat Pauker1,2, Karsten Steinhauer1,2; 1McGill University, 2CRBLM

E7 Continuous fMRI of multimodal conversation with high functioning autistic individuals.
Kyle Jasmin1,3, Siyu Lan1, Yisheng Xu1, Bako Ortioni1, Ian Eisenberg1, Nuria Abdulasabur1, Meghan Healey2, John Ingelholm1, Allen R. Braun1, Alex Martin1; 1National Institute of Mental Health, NIH, 2National Institute on Deafness and Other Communication Disorders, NIH, 3UCL Institute of Cognitive Neuroscience

Auditory Perception, Speech Perception, Audiovisual Integration

E8 Temporally dynamic cortical processing of spoken words: evidence from intracranial recordings
Ariane E. Rhone1, Bob McMurray2, Hiroïuki Oya1, Kirill V. Nourski1, Hiroto Kawasaki1, Matthew A. Howard III1, 1University of Iowa

E9 Word and pseudoword processing in the left ventral stream
Emily Cicibelli1, Matthew Leonard1, Keith Johnson1, Edward Chang2; 1University of California, Berkeley, 2University of California, San Francisco

E10 Interactive activation models simulate phoneme restoration with appropriate linking hypotheses
James Magnuson1,2; 1University of Connecticut, 2Haskins Laboratories

E11 Pattern specific adaptation to speech and non-speech sounds in human auditory cortex
Colin Humphries1, Merao Sabri1, Nicholas Heugel1, Kimberly Lewis1, Einat Liebenthal1; 1Medical College of Wisconsin, 2Marquette University

E12 Processing phonological stem variants of complex words: a neurolinguistic perspective
Natalia Bekemeier1, Aditi Lahiri2, Carsten Eulitz2; 1University of Konstanz, 2University of Oxford

E13 Mapping the timecourse of visual interference on auditory speech perception: A novel application of the McGurk effect
Jonathan Venezia1, Steven Thurman1, William Matchin1, Sahara George1, Gregory Hickok2; 1University of California, Irvine, 2University of California, Los Angeles

E14 The Effects of Attention on the Speech Perception of Infants
Karen Garvido-Nag1, Valerie Shafer2; 1Gallaudet University, 2The Graduate University, CUNY

E15 Time course of phonological activation in processing spoken Chinese disyllabic words: evidence from eye movements
Ya-Lan Chang1, Jie-Li Tsai1,2; 1Department of Psychology, National Cheng-chi University, 2Research Center for Mind, Brain & Learning, National Cheng-chi University

E16 Long-term memory traces for language sounds are highly context-sensitive: an MEG/ERF study
Andreas Højlund Nielsen1,2, Line Gebauer1, William B. McGregor2, Mikkel Wallentin1,2; 1Center of Functionally Integrative Neuroscience, Aarhus University, 2Linguistics, Aarhus University, 3Center for Semiotics, Aarhus University

E17 Effects of phase- and amplitude-spectrum decorrelation on speech intelligibility
Sierra Broussard1, Gregory Hickok1, Kourosh Saberi1; 1University of California, Irvine
E18 Representation of spectro-temporal features of fricative and stop-consonant word onsets within the sensory auditory-evoked potentials (AEPs), the P1-N1-P2 and T-complex, in individual listeners  Monica Wagner¹, Arindam RoyChoudhury², Valerie L Shafter³, Brett Martin³, Mitchell Steinschneider³, ¹St. John’s University, ²Columbia University, ³CLUNY-Graduate School and University Center, ⁴Albert Einstein College of Medicine

E20 The response of posterior perisylvian cortex during overt and covert speech production  Anna J Simmonds¹, Robert Leech¹, Catherine Collins¹, Ozlem Redjep¹, Richard J S Wise¹, ¹Imperial College London, UK

E22 The neural basis of phonological influence on lexical access  Megan Reilly¹, Sara Guediche¹, Sheila Blumstein¹,², ¹Brown University, ²Brown Institute for Brain Science

Phonology, Phonological Working Memory

E24 The duration of auditory sensory memory for vowel processing: Mismatch negativity and late negativity  Yan Yu¹,², Margaret Shakiba³, Carly Marut², Valerie L Shafter³; ¹The Graduate Center, City University of New York, ²William Paterson University of New Jersey, ³Marymount Manhattan College

E25 Using Long Distance Harmony to Probe Prediction in Speech Perception: ERP Evidence from Basque  Philip Monahan¹,²; ¹University of Toronto, ²Basque Center on Cognition, Brain and Language (BCBL)
**E34 Title: Visual recognition of upright, inverted and rotated words.** Bethany L Sussman, Sharlene D Newman; 1Indiana University

**Language Development, Plasticity, Multilingualism**

**E35 Two distinct forms of functional lateralization in the human brain** Stephen J. Gotsi, Hang Joon Jo, Gregory L. Wallace, Ziad S. Saad, Robert W. Cox, Alex Martin; 1Laboratory of Brain and Cognition, NIMH/NIH, Bethesda, MD, US, 2Scientific and Statistical Computing Core, NIMH/NIH, Bethesda, MD, US

**E36 Speech Motor Activation When Speaking a Non-Native Language: Support for a Sensitive Period in Second Language Acquisition** Jonathan Berken1, Jen-Kai Chen1, Megan Callahan1, Vincent L. Gracco2, Kate E. Watkins3, Shari Baum2, Denise Klein1; 1Cognitive Neuroscience Unit, Montreal Neurological Institute, McGill University, Canada, 2Neuroimaging, Integrative Brain Imaging Center, National Institute of Neurology and Psychiatry, 3Department of Neuroimging, Integrative Brain Imaging Center, National Center of Neurology and Psychiatry

**E37 Second language age of acquisition but not language proficiency predicts differential brain activation patterns during a picture-naming task in bilinguals** Aurora I. Ramos Nunez, Maya Ravid, Arturo E. Hernandez; 1University of Houston

**E38 A Functional Investigation of the RAN-Reading Relationship in University Students with and Without Dyslexia** Jacqueline Cummine, Eszter Szepesvari, Brea Chouinard, George Georgiou; 1University of Alberta

**E39 Phonological Working Memory in the Brain: International Adoptees, Bilinguals, and Monolinguals** Lara Pierce, Denise Klein, Jen-Kai Chen, Fred Genesee; 1McGill University, 2Montreal Neurological Institute

**E40 Dynamic neural network reorganization associated with second language vocabulary acquisition: a multimodal imaging study** Chihiro Hosoda1,2,3,4, Kanji Tanaka2, Tadashi Nariai2, Manabu Honda1, Takashi Hanakawa12,5; 1Department of Functional Brain Research, National Institute of Neuroscience, National Center of Neurology and Psychiatry, 2Department of Advanced Neuroimging, Integrative Brain Imaging Center, National Center of Neurology and Psychiatry, 3Department of Neurosurgery, Tokyo Medical and Dental University, 4Department of Motor Control and Rehabilitation, ATR

**E41 Individual Differences in Declarative and Procedural Memory and Changes in L2 ERP Signatures Over Time** Mandy Faretta-Stutenberg, Darren Tanner, Kara Morgan-Short; 1University of Illinois at Chicago, 2Penn State University, 3University of Illinois

**E42 Emerging Sensitivity to Morphosyntax at the Earliest Stages of Development: ERP Evidence for the Role of the L1** Robert Fiorentino, Alison Gabriele, José Alemán Báñón; 1University of Kansas

**E43 Predicting and Processing Ellipsis in Native and L2 Readers** Edith Kaan, Joseph Kirkham, Natalia Davidson, Frank Wijnen; 1University of Florida, US, 2Utrecht University, The Netherlands

**E44 Quantitative biological measurements of white matter development** Jason Yeatman, Brian Wandell, Avio Mezer; 1Stanford University

**Lexical Semantics**

**E45 Early automaticity in neural processing of unattended written words: MEG evidence** Francesca Carota1,2, Clare Cook2, Lucy MacGregor1, Yury Shtyrov1; 1Neurolex, Department of Psychology, University of Cambridge, UK, 2MRC, Cognition and Brain Science Unit, 3Department of Clinical Medicine, Center for Functionally Integrative Neuroscience, Aarhus University, DK

**E46 Putting an end to the motor cortex representations of action words** Greig de Zubicaray, Joanne Ariciuli, Katie McMahon; 1University of Queensland, School of Psychology, 2University of Sydney, Faculty of Health Sciences, 3University of Queensland, Centre for Advanced Imaging

**E47 Effects of multiple tasks and variables on EEG/MEG responses in visual word recognition** Olaf Hauk1, Yuanjuan Chen1,2, Friedemann Pulvermüller3, Matthew H Davis1; 1MRC Cognition and Brain Sciences Unit, Cambridge, 2Neuroscience and Aphasia Research Unit, University of Manchester, 3Brain Language Laboratory, Freie Universität Berlin

**E48 The relationship between orthographic phonological and semantic representations in the two cerebral hemispheres** Ornai Peleg1, Zohar Eviatar2; 1Tel-Aviv University, 2University of Haifa

**E49 The neural correlates of phonological, semantic and causal verbal fluency in patients with schizophrenia** Kim Wende, Straube Benjamin, Stratmann Mirjam, Sommer Jens, Kircher Tilo, Nagels Arne; 1Philippus-University Marburg

Computational Neuroscience Laboratories, 5Research Center for Advanced Science and Technology, The University of Tokyo, 6PRESTO, Japan Science and Technology Agency
E50 A Hierarchical Predictive Coding Approach to Conceptualizing the Neurobiology of Language Comprehension  Gina Kuperberg1,2; 1Tufts University, 2Massachusetts General Hospital/Harvard Medical School

E51 ERP evidence of unconstrained lexical access to meaning specified by gender  Cheryl Frenc-Mestre1, Elisa Sneed-German1; 1Centre National de Recherche Scientifique, Aix-Marseille Université, 2SIM University, English Language & Literature Programme

E52 Effects of syntactic structure on concept grounding  Wessel van Dam1, Rutvik Desai1; 1University of South Carolina

E53 Cross Language Influences in Bilingual Speakers: The Effect of a Partial Shared Translation  Zohar Eviat1, Tamar Degani1; 1University of Haifa, Israel

Syntax, Morphology

E54 Multiple routes for complex word comprehension: Novel neurophysiological paradigm dissociating whole-form and combinatorial morphosyntactic processing in the brain  Yury Shtyropov1,2,3; 1Center for Functionally Integrative Neuroscience (CFIN), Aarhus University, Denmark, 2Centre for Languages & Literature, Lund University, Sweden, 3MRC Cognition & Brain Sciences Unit, Cambridge, UK

E55 Revisiting Shared Resources for Language and Music  Nicole E. Calma1, Laura Staum Casasanto2, Dan Finer1, Robbin Miranda1, Michael T. Ullman1, John E. Drury1; 1Stony Brook University, 2University of Chicago, 3Georgetown University

E56 Sentence-level Processing in the Cerebellum: A Combined fMRI and VBM Study  ‘Iwii Parker Jones1,2, Susan Prejawa1, Tom Hope1, Marion Oberhuber1, Alex P. Leff1, Mohamed L. Seghier1, David W. Green1, Cathy J. Price1; 1Wellcome Trust Centre for Neuroimaging, University College London, 2Wolfson College, University of Oxford, 3Institute of Cognitive Neuroscience, University College London, 4Cognitive, Perceptual and Brain Sciences, University of Oxford

E57 Grammatical categories show differential activations in convergence zones: An fMRI study  Marit Lobben1, Laura Wortinger Bakke1; 1Department of Psychology, University of Oslo

E58 Modulations of functional activity and connectivity in the language network during syntactic sentence production  Ingé Timmers1,2, Job van den Hurk1, Estela Rubio-Gozalbo1, Bernadette M Jansma1; 1Maastricht University, The Netherlands, 2Maastricht University Medical Center, The Netherlands

Language Disorders

E59 Cause or consequence of dyslexia? Anomalies in white matter tracts sustaining phonological processing predate reading  Maaike Vandervorst1,2, Jolijn Vanderwaerden1,2, Theys Catherine3, Sunaert Stefan3, Wouters Jan1, Ghysquiere Pol1; 1Parenting and Special Education Research Unit, KU Leuven, Belgium, 2Experimental ORL, Dept. Neuroscience, KU Leuven, Belgium, 3Department of Radiology, University Hospital Leuven, Belgium

E60 Neural signatures of phonological working memory and grammatical processing in autism spectrum disorders  Zhenghan Qi1, Tyler Perrachione1, Anne Harris2, Irina Ostrovskaya1, Sara Beach1, Kelly Halverson1, Abbie Cyr1, Katalina Sher1, Margaret Kjelgaard1, John Gabrieli1, Kenneth Wexler1, Helen Tager-Flusberg2; 1Massachusetts Institute of Technology, 2Boston University

E61 Improved white matter integrity following naming treatment post-stroke  Sophia van Hees1,2, Katie McMahons1, Anthony Angwin1, Greig de Zubicaray1, Stephen Read1, David Copland1,2,6; 1Centre for Clinical Research, University of Queensland, Brisbane, Australia, 2School of Rehabilitation Sciences, University of Queensland, Brisbane, Australia, 3Centre for Advanced Imaging, University of Queensland, Brisbane, Australia, 4School of Psychology, University of Queensland, Brisbane, Australia, 5Royal Brisbane and Women’s Hospital, Neurology, Brisbane, Australia, 6Centre for Clinical Research Excellence in Aphasia Rehabilitation

E62 Development of white matter in children with developmental dyslexia  Indra Kraft1, Michael A. Skeide1, Jens Brauer1, Alfred Anwander1, Angela D. Friederici1; 1Max Planck Institute for Human and Cognitive Brain Sciences

E63 Atypical lateralization of phonological working memory in developmental dyslexia  Min Xu1,2, Jing Yang2, Wai Ting Siok1, Li Hai Tan1; 1The University of Hong Kong, 2Massachusetts Institute of Technology, 3Guangdong University of Foreign Studies

E64 Selective Grammatical Comprehension Deficit in Non-Fluent/Agrammatic Primary Progressive Aphasia  Dorothy Charles1, Christopher O’Lmi1, John Powers1, Sharon Ash1, David Irwin1, Corey McMillan1, Katya Kascowsky1, Murray Grossman1; 1University of Pennsylvania

E65 Patterns of brain activation predicting greater language improvement in non-fluent aphasia  Svetlana Kuptsova1,2, Rosa Vlasova1, Olga Dragoy3, Maria Ivanova1, Svetlana Malysufina1, Petrushsevsky Aleksey1, Fedina Oksana1, Gutyrchik Evgeny1; 1Center for Speech Pathology and Neurorehabilitation, Moscow, Russia, 2National Research University, Higher School of Economics, Moscow, Russia, 3Moscow Lomonosov State University, Russia, 4Ludwig Maximilians University, Munich, Germany
E66  The nature of across-task and across-structure generalization following a sentence comprehension treatment for aphasia.  Swathi Kiran¹, David Caplan², Sarah Villard¹, Carrie Des Roches¹, Elsa Ascenso¹, Gloria Waters¹; ¹Boston University, ²Massachusetts General Hospital, Boston

E67  Deficit Lesion Correlation for Syntactic Comprehension Differs as a Function of Task  Brad Dickerson¹, Jennifer Michaud¹, Rebecca Hufford¹, Nikos Makris¹, David Caplan¹; ¹Massachusetts General Hospital/Harvard Medical School

E68  The auditory comprehension of Who and Which-NP questions in aphasia: Support for the Intervener Account  Shannon MacKenzie¹, Matthew Walenski²,³, Tracy Love¹,²,³, Lewis P. Shapiro¹; ¹SDSU/UCSD Joint Doctoral Program in Language and Communicative Disorders, ²School of Speech Language and Hearing Sciences, San Diego State University, ³Center for Research in Language, University of California, San Diego

E69  Online processing of unaccusative verbs in individuals with aphasia  Natalie Sullivan¹, Matthew Walenski¹, Tracy Love¹, Lewis P. Shapiro²; ¹SDSU/UCSD Joint Doctoral Program in Language and Communicative Disorders, ²School of Speech Language and Hearing Sciences, San Diego State University
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The Sixth Annual Meeting of the Society for the Neurobiology of Language will be held at the Beurs van Berlage in Amsterdam, August 27-29, 2014