SNL 2015

OCTOBER 15-17, 2015
CHICAGO, ILLINOIS

www.neurolang.org

PROGRAM

Welcome to SNL 2015, Chicago, Illinois

Welcome to the 7th Annual Meeting of the Society for the Neurobiology of Language.

As you can see, we have a full program arranged for this year's meeting, including four distinguished keynote speakers from different areas of language and neurobiology. They will speak to us about gesture, language networks, motor learning, and the intrinsic activity of the human brain: a rich combination of topics that will surely stimulate ideas to enrich our own research. In addition, three platform sessions will again highlight some of the exciting work being carried out by our colleagues.

As our Society continues to grow, we have been experimenting with different formats for our special presentations, based on responses from post-conference surveys. This year, we have put the debates on hold in order to include an invited symposium that tackles the question of how aging affects the brain and language. This symposium includes an invited talk on the basic neuroscience of aging with additional presentations from three of our own members, and will address how this phase of the human life span might influence the way we communicate.

This year, SNL experienced a record number of abstract submissions, with a total of 468 from over 25 countries. Due to this increase, we expanded the number of poster sessions to allow more time to peruse and discuss the presented work. Also, in addition to the SNL reception, we have arranged for two additional "no-host" social hours for those who would like to stay and mingle over drinks.

Once again, we have been fortunate to have the expertise of Shauney Wilson and Shawna Lampkin who have been essential to the planning of this meeting and in running our Society over the past year. We are extremely grateful for the outstanding work they have done. Many thanks as well to our Meeting Liaison, Sonja Kotz, and Greig de Zubicaray for serving on the Program Committee, and Jeff Binder and Leora Cherney for assisting with local arrangements. Our sponsors also deserve many words of gratitude for their contributions, as do all of the reviewers who evaluated abstracts to assure an excellent slate of presentations.

The Board of Directors of the Society for the Neurobiology of Language hope you enjoy this year's meeting in the vibrant city of Chicago. We look forward to hearing your feedback about this year's format and what you might like to see in future meetings.

Nina Dronkers
Chair of the Board of Directors
Society for the Neurobiology of Language

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SNL Founders

Steven L. Small, University of California, Irvine

Pascale Tremblay, Université Laval, Quebec, Canada

Schedule of Events

All events are held at the Drake Hotel.

Wednesday, October 14

4:00 – 8:00 pm	**Pre-Registration Check-in and Onsite Registration** *Drake Room and French Foyer*
7:00 – 9:00 pm	**Social Hour** (no host bar) *Venetian Room*

Thursday, October 15

7:30 am - 6:00 pm	**Pre-Registration Check-in and Onsite Registration** *Drake Room and French Foyer*
8:00 - 8:45 am	**Continental Breakfast** *French Room*
8:45 - 9:00 am	**Opening Remarks** -Nina Dronkers, SNL Chair *Grand Ballroom*
9:00 - 10:00 am	**Keynote Lecture - Susan Goldin-Meadow -** Gesture as a Mechanism of Change *Grand Ballroom*
10:00 - 10:30 am	**Coffee Break** *French Room*
10:00 am - 12:00 pm	**Poster Session A** *French and Walton Rooms*
12:00 - 1:00 pm	**Lunch** (on your own)
1:00 - 2:20 pm	**Slide Session A - Network Development and Reorganization** *Grand Ballroom*
2:20 - 2:50 pm	**Coffee Break** *French Room*
3:00 - 4:00 pm	**Keynote Lecture - Peter Strick** -A Tale of Two Primary Motor Areas: "Old" and "New" M1 *Grand Ballroom*
4:00 - 4:30 pm	**SNL Business Meeting** *Grand Ballroom*
4:30 - 6:30 pm	**Poster Session B** *French and Walton Rooms*
6:30 - 8:00 pm	**SNL Reception** *Grand Ballroom*

Friday, October 16

8:00 am - 7:30 pm	**Pre-Registration Check-In and Onsite Registration** *French Foyer*
8:00 - 8:45 am	**Continental Breakfast** *French Room*
8:45 - 9:00 am	**Announcements** *Grand Ballroom*
9:00 - 10:00 am	**Keynote Lecture - Marsel Mesulam** - Revisiting Wernicke's Area *Grand Ballroom*
10:00 - 10:30 am	**Coffee Break** *French Room*
10:00 am - 12:00 pm	**Poster Session C** *French and Walton Rooms*
12:00 - 1:00 pm	**Lunch** (on your own)
1:00 - 3:00 pm	**Poster Session D** *French and Walton Rooms*
2:30 - 3:00 pm	**Coffee Break** *French Room*
3:00 - 4:20 pm	**Slide Session B - Perspectives on Language Processing** *Grand Ballroom*
4:30 - 5:30 pm	**Keynote Lecture - Marcus Raichle** The restless brain: how intrinsic activity organizes brain function *Grand Ballroom*
5:30 - 7:30 pm	**Poster Session E** *French and Walton Rooms*
5:30 - 7:30 pm	**Refreshments and No Host Bar** *French and Walton Rooms*
7:30 – 9:00 pm	**Social Hour** (no host bar) *Venetian Room*

Saturday, October 17

8:00 am - 2:00 pm	**Pre-Registration Check-In and Onsite Registration** *French Foyer*
8:00 - 8:30 am	**Continental Breakfast** *French Room*
8:30 - 9:50 am	**Slide Session C - Outside the Left Peri-Sylvian Cortex** *Grand Ballroom*
9:50 - 10:30 am	**Coffee Break** *French Room*
10:00 am - 12:00 pm	**Poster Session F** *French and Walton Rooms*
12:00 - 1:45 pm	**Invited Symposium -** Language and the Aging Brain *Grand Ballroom*
1:45 - 2:00 pm	**Closing Remarks - Nina Dronkers** and **Greig de Zubicaray** *Grand Ballroom*

Keynote Lectures

GESTURE AS A MECHANISM OF CHANGE

Thursday, October 15, 9:00 - 10:00 am, Grand Ballroom

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

Susan Goldin-Meadow, Ph.D.

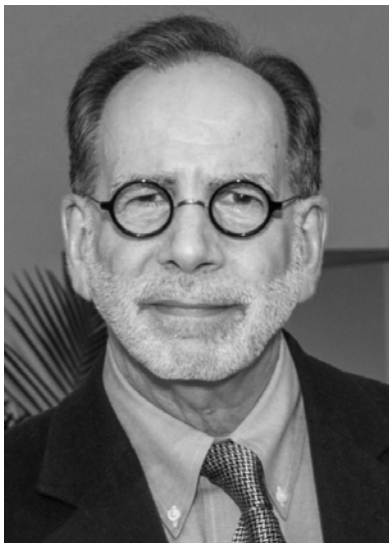
University of Chicago

The spontaneous gestures that people produce when they talk have been shown to reflect a speaker's thoughts––they can index moments of cognitive instability and reflect thoughts not yet found in speech. Gesture can go beyond reflecting thought to play a role in changing that thought––the gestures we see others produce can change our thoughts, and the gestures we ourselves produce can change our thoughts. In this talk, I consider whether gesture effects these changes because it itself is an action and can thus bring action into our mental representations. But gesture is a special kind of action––it spatializes ideas, even ideas that are inherently non-spatial, and it is representational and thus more abstract than direct action on objects. Gesture's representational properties may thus allow it to play a role in learning by facilitating the transition from action to abstraction.

A TALE OF TWO PRIMARY MOTOR AREAS: "OLD" AND "NEW" M1

Thursday, October 15, 3:00 - 4:00 pm, Grand Ballroom

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



Peter L. Strick, Ph.D.

Scientific Director of the University of Pittsburgh Brain Institute, Thomas Detre Professor and Chair of the Department of Neurobiology at the University of Pittsburgh, and a Senior Research Career Scientist at the Pittsburgh VA Medical Center

This presentation will lay out the evidence to develop the following thesis:

1) The central control of movement is faced with an evolutionary constraint: Our skeletomotor system is built on the framework of a relatively ancient spinal cord.

2) Most descending systems, including the corticospinal system, use the pattern generators and motor primitives that are built into the spinal cord to generate motor output.

3) Cortico motoneuronal (CM) cells (i.e., cortical neurons with axons that make monosynaptic connections with motoneurons) are a relatively new phylogenetic and ontogenetic development. Furthermore, CM cells are located in a separate part of the primary motor cortex.

4) Thus, area 4 is split into 2 regions: a rostral region we have termed "Old M1" which has disynaptic input to motoneurons; and a caudal region we have termed "New M1" which has monosynaptic input to motoneurons.

In essence, Old M1 makes use of the circuits built into the spinal cord to generate motor output. This region of the motor cortex enables the motor system to avoid the "curse of dimensionality" and to solve the "degrees of freedom problem." In contrast, New M1 uses CM cells to bypass the constraints of spinal cord mechanisms. This region of the motor cortex enables the motor system to use all of the available degrees of freedom to sculpt novel patterns of motor output.

These arguments lead us to predict that the two regions of the motor cortex are differentially involved in motor learning. We speculate that Old M1 is especially important during the initial stages of learning a new skill by enabling the motor cortex to use existing spinal circuits to rapidly construct new movement patterns. In contrast, New M1 may be especially important during the later stages of learning a new skill by enabling the motor cortex to refine and precisely specify patterns of motor output.

REVISITING WERNICKE'S AREA

Friday, October 16, 9:00 - 10:00 am, Grand Ballroom

Chair: Jeffrey Binder, Medical College of Wisconsin

Marsel Mesulam, M.D.

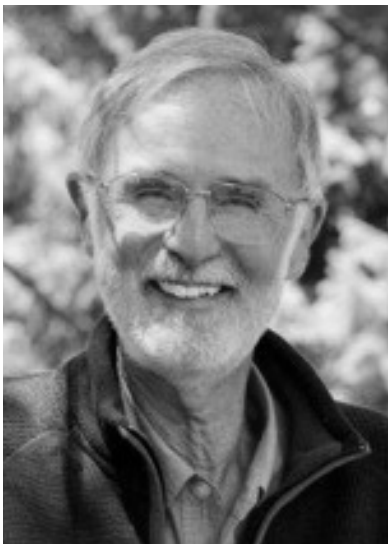
Director, Cognitive Neurology and Alzheimer's Disease Center
Ruth Dunbar Davee Professor in Neuroscience and Professor in Neurology
Ken and Ruth Davee Department of Neurology, Northwestern University

Wernicke's aphasia is characterized by severe word and sentence comprehension impairments. The location of the underlying lesion site, known as Wernicke's area, remains controversial. Questions related to this controversy were addressed in patients with primary progressive aphasia. Clinicoanatomical correlations were explored at the individual and group levels. These analyses showed that neuronal loss in temporoparietal areas traditionally included within Wernicke's area leave single word comprehension intact and cause inconsistent impairments of sentence comprehension. The most severe sentence comprehension impairments were associated with a heterogeneous set of cortical atrophy sites variably encompassing temporoparietal components of Wernicke's area, Broca's area, and dorsal premotor cortex. Severe comprehension impairments for single words, on the other hand, were invariably associated with peak atrophy sites in the left temporal pole and adjacent anterior temporal cortex, a pattern of atrophy that left sentence comprehension intact. These results show that the neural substrates of word and sentence comprehension are dissociable and that a circumscribed cortical area equally critical for word and sentence comprehension is unlikely to exist anywhere in the cerebral cortex. Reports of combined word and sentence comprehension impairments in Wernicke's aphasia come almost exclusively from patients with cerebrovascular accidents where brain damage extends into subcortical white matter. The syndrome of Wernicke's aphasia is thus likely to reflect damage not only to the cerebral cortex but also to underlying axonal pathways, leading to strategic cortico-cortical disconnections within the language network. The results of this investigation further reinforce the conclusion that the left anterior temporal lobe, a region ignored by classic aphasiology, needs to be inserted into the language network with a critical role in the multisynaptic hierarchy underlying word comprehension and object naming.

THE RESTLESS BRAIN: HOW INTRINSIC ACTIVITY ORGANIZES BRAIN FUNCTION

Friday, October 16, 4:30 - 5:30 pm, Grand Ballroom

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



Marcus Raichle, M.D.

Neurologist and Professor in the Departments of Radiology, Neurology, Neurobiology and Biomedical Engineering at Washington University in St. Louis

Traditionally studies of brain function have focused on task-evoked responses. By their very nature such experiments tacitly encourage a reflexive view of brain function. While such an approach has been remarkably productive at all levels of neuroscience it ignores the alternative possibility that brain functions are mainly intrinsic and ongoing, involving information processing for interpreting, responding to and predicting environmental demands. I suggest that the latter view best captures the essence of brain function, a position that accords well with the allocation of the brain's energy resources, its limited access to sensory information and a dynamic, intrinsic functional organization. The nature of this intrinsic activity, which exhibits a surprising level of organization with dimensions of both space and time, is revealed in the ongoing activity of the brain and its metabolism.

Mark Your Calendar

August 17-20, 2016

Invited Symposium

LANGUAGE AND THE AGING BRAIN

Saturday, October 17, 12:00 - 1:45 pm, Grand Ballroom

This special symposium will discuss how aging affects the neurobiology of language. We have invited Prof. Naftali Raz to begin the session by reviewing the progress being made in understanding the mechanisms and factors of neural change in aging. His talk will be followed with presentations by three SNL members, Lorraine Tyler, Jonathan Peelle, and Pascale Tremblay. They will discuss whether or not aging affects some of the different levels of language processing -- speech perception, speech production, or syntactic comprehension -- and the neurobiological underpinnings of their findings. A final discussion period will allow meeting attendees to ask questions or discuss different issues raised by these presentations.

Naftali Raz, Ph.D.

Professor of Psychology and an Associate Director for Life-Span Cognitive Neuroscience at the Institute of Gerontology, Wayne State University, Detroit, MI

Aging of the Brain: Its Modifiers and Cognitive Correlates

Brain and cognition change with age but the rates of change differ among individuals and across brain regions and cognitive domains. The mechanisms of these differential changes remain unclear. Multiple factors associated with vascular and metabolic risk, inflammation, stress, accumulation of reactive oxygen species and beta-amyloid modify the course of aging. Genetic variants that alter availability and metabolism of hormones, enzymes and neurotransmitters also contribute to individual variation in age-related rates of change. Interventions that ameliorate the negative modifiers, e.g., exercise and active life-style inspire cautious optimism as they promise mitigating age-related declines. I will review the progress in understanding brain aging and its impact on cognition with a specific emphasis on long-term longitudinal studies.

Lorraine Tyler

University of Cambridge and the Cambridge Centre for Ageing and Neuroscience

The adaptive brain: brain and cognition in ageing

Language comprehension is a complex system that involves the rapid transformation of the speech input into various different types of representation. In spite of the multiple rapid computations involved, there is little evidence that aging significantly impairs normal language comprehension. Focusing on syntactic processing during natural listening, we find no evidence for functional compensation of the left hemisphere specialized syntax network. While age-related decreases in grey matter are associated with weakened connectivity within the syntax network and increased inter-hemispheric connectivity elsewhere, these changes are related to poorer performance and therefore are not evidence for successful compensation. Where we do see functional compensation is during experimental paradigms that place additional cognitive demands on the listener. Under these conditions, older listeners show increased activation of domain-general (but not domain specific) networks that are associated with improved performance. Overall, this research suggests that in the context of widespread age-related grey matter changes, preserved syntactic comprehension depends on the residue of the domain-specific language system and that this system does not functionally reorganize. I will discuss these findings in relation to current neurocognitive models of aging.

Jonathan Peelle, Ph.D.

Assistant Professor in the Department of Otolaryngology at Washington University in Saint Louis

Individual differences in auditory and cognitive factors during spoken language comprehension

Understanding spoken language relies on joint contributions from incoming acoustic information and cognitive systems that allow us to extract meaning from these signals. I will review evidence that individual differences in hearing sensitivity and cognitive ability jointly contribute to the processing of spoken language, affecting the cognitive and neural systems listeners engage during speech comprehension. Although frequently studied in the context of adult aging, these principles have broader implications for our understanding of how auditory and cognitive factors interact during spoken language comprehension.

Pascale Tremblay, Ph.D.

Assistant Professor at Université Laval in Québec City and Director of the Speech and Hearing Neurosciences Lab

Speech production in aging: from behaviour to brain imaging

Despite the importance of verbal communication on quality of life, the manner and extent to which speech production mechanisms, from respiration to articulation, change throughout adulthood, as well as the nature and extent of the physiological and neurobiological mechanisms that underlie these changes, remain poorly understood. In this talk I will discuss recent experiments from my lab that explored the behavioural changes in speech production that occur with age as well as the physiological, neurostructural and neurofunctional mechanisms that underlie these changes. The results of all these experiments reveal that the decline in speech production that occurs with age has a complex, multifactorial aetiology. Future research directions will be discussed.

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

Fatemeh Geranmayeh, Imperial College, London, UK
Judy Kim, Johns Hopkins University, USA

Post Doctoral Merit Award Winners

Frank Eisner, Radboud University, the Netherlands
Sergey Kornilov, Yale University, USA

Travel Awards

This year, the Society for the Neurobiology of Language granted four Travel Awards. The awards help to cover travel and registration costs for the 2015 Society for the Neurobiology of Language Meeting in Chicago, Illinois.

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

The 2015 Travel Awards were given to:

Josefine Andin, Linköping University, Sweden
Esti Blanco-Elorrieta, New York University, USA
Lukasz Bola, Jagiellonian University, Poland
Dorian Pustina, University of Pennsylvania, USA

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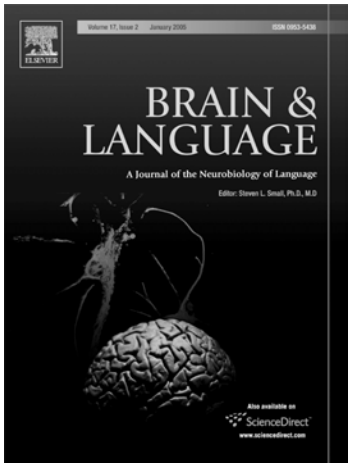

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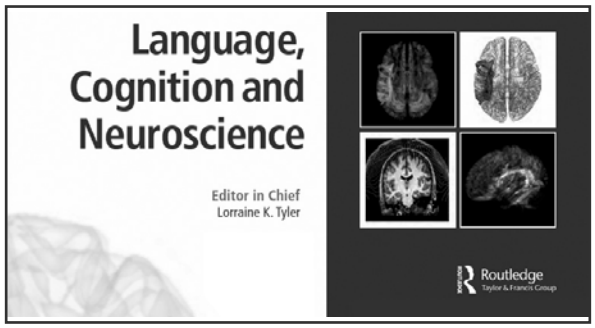

Routledge, Taylor & Francis Group

General Information

ATM

An ATM machine is located on the Arcade level.

Abstracts

The full text of poster, slide, and symposium abstracts can be found in the SNL 2015 Abstracts book, which can downloaded in PDF format from www.neurolang.org.

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 Drake, are welcome to check their bags at the Bell Desk.

Business Center

The Business Center is open 24 hours a day. Boarding passes can be printed free of charge.

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 which is located next to the Hotel Front Desk and is complimentary.

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

Guests can enjoy the Drake's 3000 square foot fitness center featuring PRECOR endurance equipment, strengthening and cardio machines, free weights, and plasma TVs. Open 24 hours.

Food Service

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

Thursday

Continental Breakfast, 8:00 - 8:45 am, *French Room*
Coffee Break, 10:00 - 10:30 am, *French Room*
Afternoon Coffee, 2:20 pm - 2:50 pm, *French Room*
SNL Reception, 6:30 – 8:00 pm, *Grand Ballroom*

Friday

Continental Breakfast, 8:00 - 8:45 am, *French Room*
Coffee Break, 10:00 - 10:30 am, *French Room*
Afternoon Coffee, 2:30 - 3:00 pm, *French Room*

Saturday

Continental Breakfast, 8:00 - 8:30 am, *French Room*
Coffee Break, 9:50 - 10:30 am, *French Room*

Future Meetings

SNL 2016 will be held August 17-20, 2016 at the Institute of Education in London, England.

Hotel Outlets

Drake Bros.

The Drake Bros. offers Breakfast from 6:30 - 11:30 am and Lunch from 11:30 am - 2:00 p.m.

Cape Cod

Cape Cod features an oyster bar and offers fresh seafood, open 5:30 pm to 10:00 pm nightly.

Palm Court

Palm Court offers Afternoon Tea daily from 1:00 pm to 5:00 pm. Cocktail Hours Sunday -Thursday from 1:00 - 9:00 pm, Friday & Saturday Noon - 1:00 am.

Coq D'Or

The Coq D'Or is a legendary bar with a reinvented menu with a new take on traditional drinks and dishes that take you on an eighty year journey through the history of the Drake Hotel. Open from 11:00 am - 1:00 pm, with entertainment on Fridays and Saturdays from 9:00 pm - 1:00 am.

Lavassa Espression

Lavazza Espression is open Monday - Friday, 6:00 am - 4:00 pm and Saturday & Sunday, 7:00 am - 4:00 pm offering traditional Italian coffees and unique Espresso creations.

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. There is free Internet in the meeting rooms.

Local Dining

The Concierge Desk maintains a comprehensive list of menus for area restaurants. The desk is open from 7:00 am - 10:00 pm.

Lost & Found

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

Meeting Rooms

All general sessions (Keynotes, the Invited Symposium, and Slides) will be held in the Grand 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 Drake Room and French Foyer. The Registration Desk hours are:

Wednesday, October 14, 4:00 - 8:00 pm
Thursday, October 15, 7:30 am – 6:00 pm
Friday, October 16, 8:00 am – 7:30 pm
Saturday, October 17, 8:00 am - 2:00 pm

Parking

Valet parking is $67 per night with in and out privileges. Self parking is located one block from hotel at $47 per night.

Phone Charging Station

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

Poster Sessions

Posters are located in the French and Walton Rooms.

Reception

The Welcome Reception will be held on Thursday, October 15, 6:30 – 8:00 pm in the Grand Ballroom.

Social Hour

A no-host cash bar will be located in the Venetian Room so that attendees can relax and interact with colleagues and friends after the meeting.

Wednesday, October 14, 7:00 - 9:00 pm
Friday, October 16, 7:30 - 9:00 pm.

Smoking

Smoking is not permitted at The Drake Hotel.

Speakers

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

Slide Sessions

Slide Session A

Thursday, October 15, 1:00 - 2:20 pm, Grand Ballroom

Network Development and Reorganization

Chair: Gina Kuperberg, Tufts University

Speakers: Frank Eisner, Łukasz Bola, Fatemeh Geranmayeh, Dorian Pustina

1:00 pm

A1 The effect of literacy acquisition on cortical and subcortical networks: A longitudinal approach *Frank Eisner[1], Uttam Kumar[2], Ramesh K Mishra[3], Viveka Nand Tripathi[4], Anupam Guleria[2], Prakash Singh[4], Falk Huettig[5]; [1]Radboud University, [2]Sanjay Gandhi Postgraduate Institute of Medical Sciences Campus, [3]University of Hyderabad, [4]University of Allahabad, [5]Max Planck Institute for Psycholinguistics*

1:20 pm

A2 Massive cortical reorganization in sighted braille readers *Łukasz Bola[1,2,9], Katarzyna Siuda-Krzywicka[1,3,9], Małgorzata Paplińska[4], Ewa Sumera[5], Katarzyna Jednoróg[2], Artur Marchewka[2], Magdalena Śliwińska[6], Amir Amedi[7,8], Marcin Szwed[1]; [1]Jagiellonian University, Krakow, Poland, [2]Nencki Institute of Experimental Biology, Warsaw, Poland, [3]École des Neurosciences à Paris, Paris, France, [4]Academy of Special Education in Warsaw, Poland, [5]Institute for the Blind and Partially Sighted Children in Krakow, Poland, [6]University College London, UK, [7]The Hebrew University of Jerusalem, Israel, [8]Sorbonne Universite´s, UPMC Univ Paris 06, Paris, France, [9]Equally contributing authors*

1:40 pm

A3 Network dysfunction predicts speech production after left-hemisphere stroke. *Fatemeh Geranmayeh[1], Robert Leech[1], Richard J. S. Wise[1]; [1]Computational Cognitive and Clinical Neuroimaging Laboratory, Imperial College, Hammersmith Hospital Campus, Du Cane Road, London, UK*

2:00 pm

A4 A supervised framework for lesion segmentation and automated VLSM analyses in left hemispheric stroke *Dorian Pustina[1,3], Branch Coslett[1], Myrna Schwartz[4], Brian Avants[2,3]; [1]Department of Neurology, University of Pennsylvania, Philadelphia, PA, USA, [2]Department of Radiology, University of Pennsylvania, Philadelphia, PA, USA, [3]Penn Image Computing and Science Lab, University of Pennsylvania, Philadelphia, PA, USA, [4]Moss Rehabilitation Research Institute, Elkins Park, PA, USA*

Slide Session B

Friday, October 16, 3:00 - 4:20 pm, Grand Ballroom

Perspectives on Language Processing

Chair: Liina Pylkkänen, New York University

Speakers: Erika Hussey, Velia Cardin, Harm Brouwer, Greig de Zubicaray

3:00 pm

B1 HD-tDCS of left lateral prefrontal cortex improves garden-path recovery *Erika Hussey[1], Nathan Ward[1], Kiel Christianson[1], Arthur Kramer[1]; [1]University of Illinois at Urbana-Champaign*

3:20 pm

B2 Does the superior temporal cortex have a role in cognitive control as a consequence of cross-modal reorganization? *Velia Cardin[1,2], Mary Rudner[2], Rita De Oliveira[3], Merina Su[4], Josefine Andin[2], Lilli Beese[1], Bencie Woll[1], Jerker Ronnberg[2]; [1]Deafness Cognition and Language Research Centre, Department of Experimental Psychology, University College London, [2]Linnaeus Centre HEAD, Swedish Institute for Disability Research, Department of Behavioural Sciences and Learning, Linköping University, Sweden., [3]School of Applied Science, London South Bank University, [4]Institute of Child Health, University College London*

3:40 pm

B3 The Electrophysiology of Language Comprehension: A Neurocomputational Model *Harm Brouwer[1], John Hoeks[2], Matthew Crocker[1]; [1]Saarland University, [2]University of Groningen*

4:00 pm

B4 A sound explanation for the motor cortex representations of action words *Greig de Zubicaray[1], Katie McMahon[2], Joanne Arciuli[3]; [1]Queensland University of Technology, Brisbane, Australia, [2]University of Queensland, Brisbane, Australia, [3]University of Sydney, Sydney, Australia*

Slide Session C

Saturday, October 17, 8:30 - 9:50 am, Grand Ballroom

Outside the Left Peri-Sylvian Cortex

Chair: Kate Watkins, University of Oxford

Speakers: Daniela Sammler, Jonathan H. Drucker, Zarinah Agnew, Nathaniel Klooster

8:30 am

C1 Dual streams for prosody in the right hemisphere *Daniela Sammler[1,2], Marie-Hélène Grosbras[2,3], Alfred Anwander[1], Patricia E. G. Bestelmeyer[2,4], Pascal Belin[2,3,5]; [1]Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany, [2]Institute of Neuroscience and Psychology, University of Glasgow, Glasgow, UK, [3]Institut des Neurosciences de La Timone, CNRS and Université Aix-Marseille, France, [4]School of Psychology, Bangor University, Bangor, UK, [5]BRAMS, University of Montréal and McGill University, Montréal, Canada*

8:50 am

C2 Does right frontal activity help or hurt word retrieval? *Jonathan H. Drucker[1,2], Keith M. McGregor[1,2], Charles M. Epstein[2], Bruce Crosson[1,2,3,4]; [1]Atlanta VA Center of Excellence for Visual and Neurocognitive Rehabilitation, [2]Emory University, [3]Georgia State University, [4]University of Queensland*

9:10 am

C3 Investigating the role of cerebellum in sensory processing during vocal behavior with theta burst stimulation *Zarinah Agnew[1], Jeevit Gill[1], Srikantan Nagarajan[2], Richard Ivry[3], John Houde[1]; [1]University of California San Francisco, Department of Otolaryngology, [2]University of California San Francisco, Department of Radiology, [3]University of California Berkeley*

9:30 am

C4 Impoverished remote semantic memory in hippocampal amnesia *Nathaniel Klooster[1], Melissa Duff[1,2,3]; [1]Neuroscience Graduate Program, [2]Department of Communication Sciences and Disorders, [3]Department of Neurology, University of Iowa*

Poster Schedule

Poster sessions are scheduled on Thursday, October 15 through Saturday, October 17. Poster sessions are two hours, and presenting authors are expected to be present the entire time. Posters are located in the French and Walton Rooms. You may post your materials on the board assigned to you starting at the scheduled "Set-up Begins" time shown below. Please note that any posters not removed by "Teardown Complete" time will be discarded. Do not leave personal items in the poster room.

Date & Time	Posters	Topics
Poster Session A Thursday, October 15 10:00 am - 12:00 pm Setup Begins: 8:00 am Teardown Complete: 2:00 pm	A1 - A23 A24 - A32 A33 - A44 A45 - A57 A58 - A75	Auditory Perception, Speech Perception, Audiovisual Integration Gesture, Prosody, Social and Emotional Processes Language Development, Plasticity, Multilingualism Language Disorders Lexical Semantics
Poster Session B Thursday, October 15 4:30 - 6:30 pm Setup Begins: 2:00 pm Teardown Complete: 7:00 pm	B1 - B2 B3 B4 - B29 B30 - B42 B43 - B49 B50 - B61 B62 - B68 B69 - B75	Syntax, Morphology Lexical Semantics Auditory Perception, Speech Perception, Audiovisual Integration Language Development, Plasticity, Multilingualism Language Disorders Lexical Semantics Orthographic Processing, Writing, Spelling Syntax, Morphology
Poster Session C Friday, October 16 10:00 am - 12:00 pm Setup Begins: 8:00 am Teardown Complete 12:30 pm	C1 - C11 C12 C13 - C16 C17 - C27 C28 - C35 C36 - C47 C48 - C54 C55 - C63 C64 C65 - C75	Control, Selection, Working Memory Discourse, Combinatorial Semantics Control, Selection, Working Memory Language Development, Plasticity, Multilingualism Language Disorders Lexical Semantics Methods Motor Control, Speech Production, Sensorimotor Integration Signed Language Syntax, Morphology
Poster Session D Friday, October 16 1:00 - 3:00 pm Setup Begins: 12:30 pm Teardown Complete: 4:00 pm	D1 - D17 D18 - D31 D32 - D38 D40 - D46 D47 - D58 D59 - D64 D65 - D75	Discourse, Combinatorial Semantics Language Development, Plasticity, Multilingualism Lexical Semantics Motor Control, Speech Production, Sensorimotor Integration Orthographic Processing, Writing, Spelling Phonology, Phonological Working Memory Syntax, Morphology
Poster Session E Friday, October 16 5:30 - 7:30 pm Setup Begins: 4:00 pm Teardown Complete: 8:00 pm	E1 E2 - E11 E12 - E23 E24 - E31 E32 - E44 E45 - E56 E57 - E62 E63 - E75	Animal Communication Language Development, Plasticity, Multilingualsim Language Disorders Lexical Semantics Motor Control, Speech Production, Sensorimotor Integration Orthographic Processing, Writing, Spelling Phonology, Phonological Working Memory Syntax, Morphology
Poster Session F Saturday, October 17 10:00 am - 12:00 pm Setup Begins: 8:00 am Teardown Complete: 12:30 pm	F1 - F27 F28 - F39 F40 - F49 F50 - F59 F60 - F70 F71 - F74	Auditory Perception, Speech Perception, Audiovisual Integration Discourse, Combinatorial Semantics Language Development, Plasticity, Multilingualism Language Disorders Lexical Semantics Motor control, Speech Production, Sensorimotor Integration

Poster Sessions

Poster Session A

Thursday, October 15, 10:00 am – 12:00 pm
French and Walton Rooms

Auditory Perception, Speech Perception, Audiovisual Integration

A1 Nonsense word sequences elicit comparable nested oscillations in intracranial recordings from human and monkey auditory cortex *Yukiko Kikuchi[1], Ariane E. Rhone[2], Kirill V. Nourski[2], Phillip E. Gander[2], Adam Attaheri[1], Christopher K. Kovach[2], Hiroto Kawasaki[2], Timothy D. Griffiths[1,2,3], Matthew A. Howard III[2], Christopher I. Petkov[1]; [1]Institute of Neuroscience, Newcastle University, [2]Human Brain Research Laboratory, Department of Neurosurgery, The University of Iowa, [3]Wellcome Trust Centre for Neuroimaging, University College London*

A2 An Investigation of Executive Function Resources in Audiovisual Speech Comprehension: an fMRI Study *Megan C. Fitzhugh[1,2,3], Peter S. Whitehead[2], Lisa Jonhson[2], Alvaro F. Diaz[2], Leslie C. Baxter[1,3], Corianne Rogalsky[1,2]; [1]Interdisciplinary Graduate Degree Program in Neuroscience, Arizona State University, Tempe, AZ, [2]Dept. Speech and Hearing Science, Arizona State University, Tempe, AZ, [3]Keller Center for Imaging Innovation, Barrow Neurological Institute & St. Joseph's Hospital and Medical Center, Phoenix, AZ*

A3 Neuropsychological and neuroanatomical factors associated with speech-in-noise perception in aging *Kathryn Altonji[1], Jessica Hanson[1], Michelle Kassel[1], Colin Humphries[1], Merav Sabri[1]; [1]Medical College of Wisconsin*

A5 Structural Integrity of the Semantic Network is associated with Selective Attention Performance across Age *Michelle T. Kassel[1,2], Colin Humphries[2], Kathryn A. Altonji[2], Jessica L. Hanson[2], David C. Osmon[1], Merav Sabri[2]; [1]University of Wisconsin - Milwaukee, [2]Medical College of Wisconsin*

A6 Cingulo-opercular interactions with auditory cortex activity during speech recognition in noise *Kenneth I. Vaden Jr.[1], Susan E. Teubner-Rhodes[1], Jayne B. Ahlstrom[1], Judy R. Dubno[1], Mark A. Eckert[1]; [1]Medical University of South Carolina*

A7 Speaker information affects false recognition of unstudied lexical-semantic associates *Sahil Luthra[1], Neal P. Fox[1], Sheila E. Blumstein[1]; [1]Brown University*

A8 Components of name recognition explored with fMRI during propofol sedation *William Gross[1], Christopher Robers[1], Xiaolin Liu[1], Kathryn Lauer[1], Shi-Jiang Li[1], Jeffrey Binder[1], Anthony Hudetz[1]; [1]Medical College of Wisconsin*

A9 An fMRI study investigating effects of conceptually related sentences on the perception of degraded speech *Sara Guediche[1], Megan Reilly[1], Carolina Santiago[2], Patryk Laurent, Sheila Blumstein[1,3]; [1]Department of Cognitive, Linguistic & Psychological Sciences, Brown University, [2]Neuroscience Department, Brown University, [3]Brown Institute for Brain Science, Brown University*

A10 Identifying the direction of logarithmic frequency sweeps is affected both by rate and extent of frequency change *Carolyn McClaskey[1], Kourosh Saberi[1]; [1]University of California, Irvine*

A11 Brain mechanisms for processing phonetic and emotional information in speech *Yang Zhang[1], Erin Diamond[1]; [1]Department of Speech-Language-Hearing Sciences & Center for Neurobehavioral Development, University of Minnesota, Minneapolis, MN, USA*

A12 Who's laughing now? Emotional authenticity impairs the perception of indexical cues in non-verbal vocalizations. *Nadine Lavan[1], Abigail Domine[1], Betty Fisher[1], Noa Kenigsztein[1], Sophie Scott[2], Carolyn McGettigan[1,2]; [1]Department of Psychology, Royal Holloway, University of London, [2]Institute of Cognitive Neuroscience, University College London*

A13 Amplitude and phase spectra information contribute to speech intelligibility and melody recognition differently *Sierra Broussard[1], Gregory Hickok[1], Kourosh Saberi[1]; [1]University of California, Irvine*

A14 Resting GABA concentration predicts induced auditory gamma power and FM discrimination thresholds *Roeland Hancock[1], Srikantan Nagarajan[1], Fumiko Hoeft[1,2,3]; [1]University of California, San Francisco, [2]Haskins Laboratories, [3]Keio University*

A15 Audiovisual Speech Integration in Children with ASD and TD. *Julia Irwin[1,2], Lawrence Brancazio[1,2], Jacqueline Turcios[1,2], Trey Avery[1,4], Nicole Landi[1,3]; [1]Haskins Laboratories, [2]Southern Connecticut State University, [3]University of Connecticut, [4]Columbia University*

A16 Audiovisual integration in the presence of auditory and visual noise: Analysis of behavior and eye movements *Paul Fillmore[1,2], Zack Kolsrud[2], Taylor Hanayik[2,3], Julius Fridriksson[2]; [1]Baylor University, Department of Communication Sciences and Disorders, [2]University of South Carolina, Department of Communication*

Sciences and Disorders, [3]University of South Carolina, Department of Psychology

A17 Examining the neural correlates of Rapid automatized naming (RAN) in dyslexia *Shivraj Jhala[1], Jillian Freitag[1], Carol Boliek[1,2], George Georgiou[3], Jacqueline Cummine[1,2]; [1]Department of Communication Sciences and Disorders, Faculty of Rehabilitation Medicine, University of Alberta, Canada, [2]Neuroscience and Mental Health Institute, University of Alberta, Canada, [3]Department of Educational Psychology, University of Alberta, Canada*

A18 Speech-evoked brainstem responses relate to KIAA0319 variants and phonological skills in pre-reading children: a biomarker for dyslexia? *Nicole Neef[1], Johanna Liebig[1], Arndt Wilke[2], Holger Kirsten[2], Bent Müller[2], Michael Skeide[1], Gesa Schaadt[3], Jens Brauer[1], Nina Kraus[4], Frank Emmrich[2], Johannes Boltze[2], Angela D. Friederici[1]; [1]Max Planck Institute for Human Cognitive and Brain Sciences, [2]Fraunhofer Institute for Cell Therapy and Immunology, [3]Humboldt-Universität zu Berlin, [4]Northwestern University*

A19 Sensitivity to speech distributional information in children with autism: a MEG study *Zhenghan Qi[1], Dimitrios Pantazis[1], Carlo de los Angeles[1], Tyler K. Perrachione[2], John D. E. Gabrieli[1]; [1]Massachusetts Institute of Technology, [2]Boston University*

A20 Neural impairment of tone language speakers with congenital amusia: An fMRI study *Caicai Zhang[1,2], Gang Peng[2,3], William S-Y. Wang[2,3]; [1]The Hong Kong Polytechnic University, [2]Shenzhen Institutes of Advanced Technology, [3]The Chinese University of Hong Kong*

A21 Perceptual Restoration of Masked Speech in Human Cortex *Matthew Leonard[1], Matthias Sjerps[2], Maxime Baud[1], Edward Chang[1]; [1]University of California, San Francisco, [2]University of California, Berkeley*

A22 Category specificity, hubs, and time course of semantic brain activation: a neurocomputational model *Rosario Tomasello[1,2], Max Garagnani[1,2], Friedemann Pulvermüller[1]; [1]Brain Language Laboratory, Department of Philosophy and Humanities, Freie Universität Berlin, Germany, [2]Centre for Robotics and Neural Systems (CRNS), University of Plymouth, United Kingdom*

A23 Individual differences in visemic representations and their relationship to lip-reading and speech-in-noise perception – an event related potentials (ERP) study *Natalya Kaganovich[1], Jennifer Schumaker[1], Courtney Rowland[1]; [1]Purdue University*

Gesture, Prosody, Social and Emotional Processes

A24 Phrasing in language and music: same or different? An event-related potential study. *Anastasia Glushko[1,2], Karsten Steinhauer[1,2], Stefan Koelsch[3]; [1]McGill University, [2]The Centre for Research on Brain, Language and Music, [3]Freie Universität Berlin*

A25 Prosody activates theory of mind areas during speech act comprehension – fMRI evidence *Nele Hellbernd[1], Daniela Sammler[1]; [1]OHG Neural Bases of Intonation in Speech, Max Planck Institute for Human Cognitive and Brain Science, Leipzig, Germany*

A26 Prosodic influences on question/answer focus in English ditransitives: An auditory ERP study *Ellen Guigelaar[1], John Drury[1]; [1]Stony Brook University*

A28 Developmental changes in the perception of emotional vocalizations *Sinead H.Y. Chen[1], Saloni Krishnan[1], Samuel Evans[1], Stella Guldner[1], Ana Gomes[1], Nermin Khamosia[1], Sophie Scott[1]; [1]University College London*

A29 The neural integration of pointing gesture and speech in a visual context: An fMRI study *David Peeters[1], Tineke M. Snijders[2], Peter Hagoort[1,2], Asli Ozyurek[1,2]; [1]Max Planck Institute for Psycholinguistics, Nijmegen, The Netherlands, [2]Radboud University, Donders Institute for Brain, Cognition, and Behaviour, Nijmegen, The Netherlands*

A30 Regular meter facilitates semantic integration during silent reading *Heechun Moon[1], Sonja Kotz[2,3], Cyrille Magne[1]; [1]Middle Tennessee State University, USA, [2]Max Planck Institute Leipzig, Germany, [3]University of Manchester, UK*

A31 Semantic integration of speech and iconic gestures: bringing the face into the picture *David Vinson[1], Pamela Perniss[2], Gabriella Vigliocco[3]; [1]University College London, [2]University of Brighton*

A32 Functional brain networks underlying word and gesture production *Lars Marstaller[1,2], Hana Burianová[1,3], David Reutens[1]; [1]Centre for Advanced Imaging, The University of Queensland, [2]ARC Science of Learning Research Centre, [3]ARC Centre of Excellence in Cognition and its Disorders*

Language Development, Plasticity, Multilingualism

A33 The neural basis of language development: Changes in lateralization over age *Olumide Olulade[1], Anna Greenwald[1], Catherine Chambers[1], Peter Turkeltaub[1], Alexander Dromerick[1], Madison Berl[2], Wiliiam Gaillard[2], Elissa Newport[1]; [1]Georgetown University Medical Center, [2]Children's National Medical Center*

A34 Experience in learning new languages modulates rapid formation of cortical memory circuits for novel words *Lilli Kimppa[1], Teija Kujala[1], Yury Shtyrov[2]; [1]Cognitive Brain Research Unit, Institute of Behavioural Sciences, University of Helsinki, Finland, [2]Center of*

Functionally Integrative Neuroscience, Department of Clinical Medicine, Aarhus University, Denmark

A35 Neuro-physiological adaptation to bilingual and monolingual environments begins in infancy *Monika Molnar[1], Jovana Pejovic[1], Manuel Carreiras[1,2,3]; [1]Basque Center on Cognition, Brain, and Language (BCBL), Donostia, Spain, [2]IKERBASQUE. Basque Foundation for Science, Bilbao, Spain, [3]University of the Basque Country, UPV/EHU, Spain*

A36 Functional maturation of the sentence comprehension network in children *Louise Croft[1], Thomas Hope[2], Oiwi Parker Jones[3], Peter Rankin[1], Cathy Price[2], Torsten Baldeweg[1]; [1]Institute of Child Health, University College London, [2]Wellcome Trust Centre for Neuroimaging, University College London, [3]Nuffield Department of Clinical Neurosciences, University of Oxford, [4]Great Ormond Street Hospital NHS Foundation Trust*

A37 Auditory evoked potentials to speech and nonspeech stimuli are associated with verbal skills in preschoolers *Soila Kuuluvainen[1], Alina Leminen[1,2], Teija Kujala[1]; [1]Cognitive Brain Research Unit, Institute of Behavioural Sciences, University of Helsinki, [2]Center of Functionally Integrative Neuroscience, Department of Clinical Medicine, Aarhus University*

A38 Neural mechanisms supporting successful speech comprehension in normal aging *Yune Sang Lee[1], Chad Rogers[3], Nam Eun Min[1], Arthur Wingfield[2], Murray Grossman[1], Jonathan Peelle[3]; [1]Department of Neurology, University of Pennsylvania, Philadelphia PA USA, [2]Volen National Center for Complex Systems, Brandeis University, Waltham MA USA, [3]Department of Otolaryngology, Washington University in St. Louis, St. Louis MO USA*

A39 Online build-up of neocortical memory traces for spoken words: specific facilitatory effects of novel semantic associations and articulatory programmes *Alina Leminen[1,2], Eino Partanen[1,2], Andreas Højlund Nielsen[1], Mikkel Wallentin[1], Yury Shtyrov[1]; [1]Center of Functionally Integrative Neuroscience/MINDLab, Aarhus University, [2]Cognitive Brain Research Unit, University of Helsinki*

A41 Comparing statistical learning of syllables and pure tones using NIRS *Sandrine Girard[1], Ted Huppert[2], Jeff Barker[2], Erik Thiessen[1]; [1]Carnegie Mellon University, [2]University of Pittsburgh*

A42 The sound-symbolic P3 effect: how sound-symbolism affects novel word learning *Gwilym Lockwood[1], Mark Dingemanse[1], Peter Hagoort[1,2]; [1]Max Planck Institute for Psycholinguistics, Nijmegen, [2]Donders Institute for Brain, Cognition, and Behaviour, Radboud University, Nijmegen*

A43 Rapid changes in STG and MTG underlying automatic online build-up of novel memory traces for visually presented unattended words: MEG evidence *Eino Partanen[1,2], Alina Leminen[1,2], Yury Shtyrov[1]; [1]CFIN - Center of Functionally Integrative Neuroscience / MINDLab, Department of Clinical Medicine, Aarhus University Hospital, Denmark, [2]Cognitive Brain Research Unit, Institute of Behavioral Sciences, University of Helsinki, Finland*

A44 Brain and behavioral differences in speech segmentation between typically developing children and children with ASD *Neelima Wagley[1], Jessica S.F. Hay[2], Margaret Ugolini[1], Susan M. Bowyer[3], Renee Lajiness-O'Neill[4], Jonathan Brennan[1], Ioulia Kovelman[1]; [1]University of Michigan, [2]University of Tennessee, [3]Henry Ford Hospital, Detroit, [4]Eastern Michigan University*

Language Disorders

A45 The dyslexia-susceptibility candidate genes Kiaa0319 and Kiaa0319-Like are not required for neuronal migration in the developing mouse cortex *Luiz Guidi[1,2], Isabel Martinez-Garay[1], Melissa Bailey[1], Zoe Holloway[2], Anthony P. Monaco[2], Antonio Velayos-Baeza[2], Zoltan Molnar[1]; [1]Department of Physiology, Anatomy and Genetics, University of Oxford, [2]Wellcome Trust Centre for Human Genetics, University of Oxford*

A46 Dual stream model guided treatment of aphasia *Helga Thors[1], Jessica D. Richardson[2], Julius Fridriksson[1]; [1]University of South Carolina, [2]University of New Mexico*

A48 "She will drive the _____": Verb-based prediction in individuals with Parkinson disease. *Kelsey G. Santerre[1], Angela Roberts[1], JB Orange[1], Mary Jenkins[1], J. Alexander Fraser[1], Ken McRae[1]; [1]University of Western Ontario*

A49 Pure word deafness. A clinical, linguistic, neuroimaging and funtional case report. *Ismael Luis Calandri[1], Federico Carpani[1], José Manuel Pastor Rueda[1], María Cristina Medina[1], María Alejandra Amengual[1], Ricardo Allegri[1]; [1]Institute for Neurological Research Dr. Raúl Carrea, FLENI, Argentina*

A50 Modality-specific memory impairments in non-semantic primary progressive aphasia *Aneesha Nilakantan[1,2], Emily Rogalski[1,2], Joel Voss[1,3], M-Marsel Mesulam[1,2,3]; [1]Northwestern University Interdepartmental Neuroscience Program, [2]Cognitive Neurology and Alzheimer's Disease Center, [3]Northwestern Feinberg School of Medicine*

A51 Functional and structural connectivity following A Right-Hemisphere Stroke: An f-MRI-DTI Case Study *Perrine Ferré[1], Johnathan Deslauriers[1], Provost Jean-Sebastien[1], Joanette Yves[1]; [1]CRIUGM, Udem*

A52 Attention and Coherent, Cohesive Connected Speech in Mild Stroke *Gail A Robinson[1], Megan S Barker[1], Breanne Young[1]; [1]Neuropsychology Research Unit, School of Psychology, The University of Queensland, Brisbane, Australia*

A53 Anatomical connectivity and communication impairments in moderate to severe traumatic brain injury *Marie-Pier Mc Sween[1], Pamela F. Ross[1,2], Maxime Descôteaux[4], Caroline Arbour[2], Nadia Gosselin[2,3], Karine Marcotte[1,2]; [1]School of Speech Language Pathology and Audiology, University of Montreal, Montreal, Canada, [2]Research Center at Sacré-Coeur Hospital of Montreal, Montreal, Canada, [3]Department of Psychology, University of Montreal, Montreal, Canada, [4]Sherbrooke Connectivity Imaging Lab, University of Sherbrooke, Sherbrooke, Canada*

A54 Hyper-synchronization of brain activity in ASD during face-to-face conversation *Kyle Jasmin[1,2], Stephen J. Gotts[1], Yisheng Xu[3], Siyuan Liu[3], Cameron Riddell[1], John Ingeholm[1], Allen R. Braun[3], Alex Martin[1]; [1]NIMH, NIH, [2]ICN, UCL, [3]NINDS, NIH*

A55 Quantifiers in speech production in corticobasal syndrome and behavioral variant frontotemporal dementia *Sharon Ash[1], Kylie Ternes[1], Christopher Olm[1], Teagan Bisbing[1], Nam Eun Min[1], Eileen Moran[1], Collin York[1], Corey T. McMillan[1], Murray Grossman[1]; [1]Perelman School of Medicine at the University of Pennsylvania*

A56 Brain Regions Mediating Recovery of Word Reading in Phonological Aphasia: An Event-Related fMRI Study *Sara B. Pillay[1], William L. Gross[1], Colin Humphries[1], Jeffrey R. Binder[1]; [1]Medical College of Wisconsin*

A57 A Random Forests analysis of the relationship between reading-related skills and white matter tractography *Julie A. Van Dyke[1], Kazunaga Matsuki[1,2], Hannah R. Jones[1], Peter J. Molfese[1,3], Andrew Jahn[1], Clinton L. Johns[1], Dave Kush[1], Morgan L. Bontrager[1]; [1]Haskins Laboratories, [2]McMaster University, [3]University of Connecticut*

Lexical Semantics

A58 Semantic predictions during sentences processing: A Readiness Potential (RP) study *Luigi Grisoni[1], Natalie Miller[1], Friedemann Pulvermüller[1]; [1]Brain Language Laboratory, Freie Universität Berlin, Habelschwerdter Allee 45, 14195 Berlin, Germany*

A59 From sound to meaning: Neural dynamics of lexical access to conceptual representations *Ece Kocagoncu[1], Alex Clarke[2], Barry Devereux[1], Elisa Carrus[1], Lorraine K. Tyler[1]; [1]Centre for Speech, Language and the Brain, University of Cambridge, Cambridge, UK, [2]Centre for Neuroscience, University of California, Davis, CA USA*

A60 When a hit sounds like a kiss: an electrophysiological exploration of semantic processing in visual narrative *Mirella Manfredi[1], Neil Cohn[2], Marta Kutas[2]; [1]Cognitive Neuroscience Laboratory and Developmental Disorders Program, Center for Health and Biological Sciences, Mackenzie Presbyterian University, Sao Paulo, Brazil, [2]Kutas Cognitive Electrophysiology Lab, Department of Cognitive Science, University of California, San Diego, CA, USA*

A61 On the screen, in the mind: An ERP investigation into the interaction between visuospatial information and spatial language during on-line processing *Emily Zane[1,3], Valerie Shafer[1], Sandeep Prasada[1,3]; [1]CUNY Graduate Center, [2]Hunter College, [3]Emerson College*

A62 Presentation Modality shapes the imageability effect on N400 *Chih-Ting Chang[1], Chia-Ju Chou[1], Chia-Ying Lee[1,2,3]; [1]Institute of Neuroscience, National Yang-Ming University, Taipei, Taiwan, [2]Institute of Linguistics, Academia Sinica, Taipei, Taiwan, [3]Institute of Cognitive Neuroscience, National Central University, Taipei, Taiwan*

A63 Cumulative effects of prior knowledge and semantic coherence during speech perception: an fMRI study *Carine Signoret[1], Josefine Andin[1], Ingrid Johnsrude[1,2], Mary Rudner[1]; [1]Linnaeus Centre HEAD, Swedish Institute for Disability Research, Department of Behavioral Sciences and Learning, Linköping University, Sweden, [2]Brain and Mind Institute, National Centre for Audiology, School of Communication Sciences and Disorders, Western University, London, Ontario, Canada*

A64 Neural correlates of visual emotion word processing *Anne Keitel[1], Christian Keitel[1], Patrick J. O'Donnell[2], Graham G. Scott[3], Gillian Bruce[3], Sara C. Sereno[1,2]; [1]Institute of Neuroscience and Psychology, University of Glasgow, [2]School of Psychology, University of Glasgow, [3]School of Social Sciences, University of the West of Scotland*

A65 Emotion in word processing – from neurolinguistic to social significance *Johanna Kissler[1]; [1]Bielefeld University*

A66 EMG-recorded motor cortex response during passive action sentence processing *Melody Courson[1], Joël Macoir[1], Pascale Tremblay[1]; [1]Université Laval, Faculté de Médecine, Département de Réadaptation, Québec, Canada*

A67 The shape of things to come in speech production: An fMRI study of visual form interference during lexical access *Greig de Zubicaray[1], Katie McMahon[2], Kori Johnson[2], Marcus Meinzer[2], David Howard[3]; [1]Queensland University of Technology, Brisbane, Australia, [2]University of Queensland, Brisbane, Australia, [3]Newcastle University, Newcastle-upon-Tyne, UK*

A68 Form-based pre-activation during semantic priming: Evidence from ERPs *Trevor Brothers[1], Tamara Y. Swaab[1,2], Matthew J. Traxler[1,2]; [1]University of California, Davis, [2]UC Davis Center for Mind and Brain*

A70 Top-down semantic influence on the left ventral occipitotemporal cortex in Chinese reading *Jin Wang[1], Yuan Deng[1]; [1]Chinese Academy of Sciences*

A71 Effects of Cloze Probability and Orthographic Neighborhood on Lexical Processing During Reading. *Neli Mihov[1], Megan Boudewyn[1], Trevor Brothers[1], Marta Vergara[2], Tamara Swaab[1]; [1]University of California, Davis, [2]University of Valencia*

A72 Foveal load and parafoveal processing. An ERP study *Pedro Javier López Pérez[1], Julien Dampuré[2,1], Juan A. Hernández-Cabrera[1], Horacio A. Barber[1]; [1]University of La Laguna, Spain, [2]University of Poitiers, France*

A73 Interplay between semantic and syntactic information in Chinese Classifier-noun agreement: An ERP comparison *Chia-Ju Chou[1], Chih-Ting Chang[1], Jie-Li Tsai[3], Chia-Ying Lee[1,2]; [1]National Yang-Ming University, Taiwan, [2]Academia Sinica, Taiwan, [3]National Chengchi University, Taiwan*

A74 Dissociating neural effects of semantic and syntactic category on lexical processing *Natalia Lapinskaya[1], Uchenna Uzomah[1], Marina Bedny[2], Ellen Lau[1]; [1]University of Maryland, [2]Johns Hopkins University*

A75 Dynamic interactions between frequency and predictability in sentential context *Yoana Vergilova[1], Heiner Drenhaus[1], Matthew Crocker[1]; [1]Saarland University*

Poster Session B

Thursday, October 15, 4:30 – 6:30 pm
French and Walton Rooms

Syntax, Morphology

B1 Genetic variation in the effects of familial handedness on language processing *Thomas Bever[1], Roeland Hancock, Dane Bell; [1]University of Arizona, [2]University of California at San Francisco, [3]University of Arizona*

B2 The role of familial sinistrality on hemispheric differences in syntactic processing across the lifespan *Michelle Leckey[1], Chia-Lin Lee[2], Kara D. Federmeier[1]; [1]University of Illinois at Urbana-Champaign, [2]National Taiwan University*

Lexical Semantics

B3 Early and late neurological responses to preconscious form and semantic information in lexical category decision *Dane Bell[1], Kenneth Forster[1], Thomas G. Bever[1]; [1]University of Arizona*

Auditory Perception, Speech Perception, Audiovisual Integration

B4 A common variant of the CNTNAP2 gene is associated with structural variation in the dorsal visual stream and language-related regions of the right hemisphere. *Julia Udden[1,2], Tineke M. Snijders[2], Simon E. Fisher[1,2], Peter Hagoort[1,2]; [1]Max Planck Institute for Psycholinguistics, Nijmegen, The Netherlands, [2]Radboud University Nijmegen, Donders Institute for Brain, Cognition and Behaviour, Nijmegen, The Netherlands*

B5 Assessing pre-natal rhythm-based discrimination of language by fetal magnetocardiography (fMCG) *Utako Minai[1], Kathleen Gustafson[2], Robert Fiorentino[1], Allard Jongman[1], Joan Sereno[1]; [1]Department of Linguistics, University of Kansas, [2]Hoglund Brain Imaging Center, University of Kansas Medical Center*

B6 How does musical experience affect auditory perception? *Saloni Krishnan[1], Samuel Evans[1], Cesar Lima[1], Sinead Chen[1], Stella Guldner[1], Sophie Scott[1]; [1]Institute of Cognitive Neuroscience, UCL*

B7 Corticocollicular influences on subcortical encoding of speech sounds *Han-Gyol Yi[1], Zilong Xie[1], Rachel Reetzke[1], Bharath Chandrasekaran[1]; [1]The University of Texas at Austin, Austin, TX, USA*

B8 Corticostriatal white matter connectivity predicts speech category learning success *Han-Gyol Yi[1], Seth R. Koslov[1], W. Todd Mddox[1], Bharath Chandrasekaran[1]; [1]The University of Texas at Austin, Austin, TX, USA*

B9 Exploring multivoxel classification in individual statistical analysis: an application to word level cortical representations of speech *Joao Correia[1], Bernadette Jansma[1], Giancarlo Valente[1], Milene Bonte[1]; [1]Maastricht University, Department of Cognitive Neuroscience, Faculty of Psychology and Neuroscience, The Netherlands*

B10 Bilingual hearing in noise: Strengths and weaknesses *Jennifer Krizman[1], Ann R. Bradlow[1], Silvia Siu-Yin Lam[1], Nina Kraus[1]; [1]Northwestern University*

B11 Understanding speech perception in noise through the lens of socioeconomic status *Silvia Siu-Yin Lam[1], Jennifer Krizman[1], Nina Kraus[1]; [1]Northwestern University*

B12 Biological markers of reading ability in the adult auditory system *Erika Skoe[1], Lisa Brody[1], Rachel M. Theodore[1]; [1]University of Connecticut*

B13 Neural Encoding of Talker-Specific Phonetic Variation *Emily Myers[1], Rachel Theodore[1], Sahil Luthra[2]; [1]University of Connecticut, [2]Brown University*

B14 Speech detail that is available three months after birth is ignored when the very first words are recognized *Claudia Teickner[1,2], Angelika Becker[2], Claudia Friedrich[1,2]; [1]University of Tuebingen, [2]University of Hamburg*

B15 Exploring STG lateralization and musical experience: Coordinate-based meta-analyses *Michelle Cohn[1]; [1]University of California, Davis*

B16 Neural Mechanisms of Perceptual Learning of Synthetic Speech *Shannon Heald[1], Joel Snyder [2], Howard Nusbaum[1]; [1]The University of Chicago, [2]University of Nevada, Las Vegas*

B17 Different mismatch responses to lexical tone and consonant in Mandarin-speaking phonological deficit preschoolers and control children *Tian Hong[1], Hua Shu[1]; [1]State Key Laboratory of Cognitive Neuroscience and Learning, Beijing Normal University, China*

B19 The auditory-brainstem response to continuous speech is modulated by the speech envelope and can inform on language processing and attention to speech *Tobias Reichenbach[1], Chananel Braiman[2], Chagit Reichenbach[2,3], Nicholas Schiff[2], A. J. Hudspeth[3]; [1]Imperial College London, [2]Weill Cornell Medical College, [3]Rockefeller University*

B20 Topographic representation of frequency-selective attention in human auditory cortex *Frederic Dick[1], Matt Lehet[2], Lori Holt[2]; [1]Birkbeck/UCL Centre for NeuroImaging, [2]Carnegie Mellon University*

B21 A new framework to investigate hemispheric asymmetries in speech *Adeen Flinker[1], David Poeppel[1,2]; [1]New York University, [2]Max Planck Institute for Empirical Aesthetics*

B22 Investigating the factors that impact upon intelligibility processing when using TMS to target the auditory cortex. *Dan Kennedy-Higgins[1], Joseph T. Devlin[2], Helen E. Nuttall[1], Patti Adank[1]; [1]Department of Speech, Hearing and Phonetic Sciences, University College London, [2]Department of Experimental Psychology, University College London*

B23 A causal inference model for the McGurk effect *John Magnotti[1], Michael Beauchamp[1]; [1]Baylor College of Medicine*

B24 Auditory temporal windows revealed by locally reversing Mandarin speech *Xiangbin Teng[1], Ning Mei[1], Xing Tian[3,4], David Poeppel[1,2]; [1]Department of Psychology, New York University, New York, NY, [2]Max Planck Institute, Frankfurt, Germany, [3]New York University, Shanghai, [4]NYU-ECNU Institute of Brain and Cognitive Science at NYU Shanghai*

B25 A new acoustic space for hemispheric asymmetries investigated by dichotic listening *Taehwan Ian Kim[1], Ning Mei[1], David Poeppel[1,2], Adeen Flinker[1]; [1]New York University, [2]Max Planck Institute for Empirical Aesthetics, Germany*

B26 Effects of extended training on an incidental auditory category learning task *Casey L. Roark[1,2], Lori L. Holt[1,2]; [1]Carnegie Mellon University, [2]Center for the Neural Basis of Cognition*

B27 Visual and Temporal Influences on Multimodal Speech Integration *Hannah Shatzer[1], Antoine Shahin[2], Mark Pitt[1]; [1]The Ohio State University, [2]University of California, Davis*

B28 Efficient classification of the temporal and spectral modulations essential for speech intelligibility *Jonathan Venezia[1], Gregory Hickok[1], Virginia Richards[1]; [1]University of California, Irvine*

B29 Integration of temporally asynchronous speech cues investigated with eye-tracking and electrocorticography: Brain and behavior do not always timelock to the signal. *Kayleen Schreiber[1], Ariane E. Rhone[1], Jamie Klein[1], Marcus E. Galle[1], Bob McMurray[1]; [1]University of Iowa*

Language Development, Plasticity, Multilingualism

B30 Bilingual language control in perception vs. action: MEG reveals reactive control mechanisms in anterior cingulate cortex and domain-general proactive control in dorsolateral prefrontal cortex *Esti Blanco-Elorrieta[1,2], Liina Pylkkänen[1,2]; [1]New York University, [2]NYUAD Institute*

B31 Neural underpinnings of language switching in trilinguals: an MEG study *Suzanne Hut[1], Päivi Helenius[2], Alina Leminen[1,3], Jyrki Mäkelä[4], Minna Lehtonen[1,5]; [1]Cognitive Brain Research Unit, Institute of Behavioural Sciences, University of Helsinki, Finland, [2]Brain Research Unit, O.V. Lounasmaa Laboratory, and Aalto Neuroimaging, Aalto University, Espoo, Finland, [3]Center of Functionally Integrative Neuroscience, Department of Clinical Medicine, Aarhus University, Denmark, [4]BioMag Laboratory, HUS Medical Imaging Center, Helsinki University Central Hospital, Helsinki, Finland, [5]5Department of Psychology and Logopedics, Åbo Akademi University, Turku, Finland*

B32 ERPs reveal mechanisms of language control during L2 speech planning: Inhibitory processes observed on the Go *Rhonda McClain[1], Eleonora Rossi[1], Judith F. Kroll[1]; [1]The Pennsylvania State University*

B33 Bilingualism delays manifestation of Alzheimer's disease *Evy Woumans[1], Patrick Santens[2], Anne Sieben[2], Jan Versijpt[3], Michaël Stevens[1], Wouter Duyck[1]; [1]Ghent University, [2]Ghent University Hospital, Ghent University, [3]Brussels University Hospital, Vrije Universiteit Brussel*

B34 Cortical Maturation Accompanying Individual Differences in Longitudinal Development of Children's Reading Ability *Tanya Evans[1], Marie Schaer[1], John Kochalka[1], Tricia J. Ngoon[1], Mayuka Sarukkai[1], Aditya Menon[1], Edward Mei[1], Mark Beidelman[1], Lang Chen[1], Christian Battista[1], Vinod Menon[1]; [1]Stanford University School of Medicine*

B35 Salience network manages language production of bilinguals through interaction with target brain regions *Le Li[1], Lijuan Zou[1], Xin Yan[1], Guosheng Ding[1]; [1]Beijing Normal University*

B36 Behavioral and neural effects of language anticipation during bilingual word production *Liv J. Hoversten[1,2], Trevor Brothers[1,2], Tamara Y. Swaab[1,2], Matthew J. Traxler[1,2]; [1]University of California, Davis, [2]UC Davis Center for Mind and Brain*

B37 Evidence against the phenomenon of hemispheric lateralization in categorical perception *Katherine P. Jones[1], Stephen D. Goldinger[1], Stephen Walenchok[1]; [1]Arizona State University*

B38 The impact of timing on lexical-semantic prediction in L1 and L2 *Ellen Lau[1], Polly O'Rourke[2], Anna Namyst[1], Sanna Darwish[1], Tim Dawson[1]; [1]University of Maryland, [2]University of Maryland Center for the Advanced Study of Language*

B39 Mapping the body into the brain: Neural representation of novel words learned through gestures and their impact on memory *Manuela Macedonia[1,2], Karsten Müller[2]; [1]Johannes Kepler University Linz, Austria, [2]Max Planck Institute for Human Brain Sciences Leipzig, Germany*

B40 Atypical language lateralization in congenital blindness *Connor Lane[1], Shipra Kanjlia[1], Akira Omaki[1], Marina Bedny[1]; [1]Johns Hopkins University*

B41 Delayed language development in young children raised in institutional care is manifested in the atypical N400 component *Marina Zhukova[1], Sergey Kornilov[1,2,3], Marina Vasilyeva[1], Anna Letunovskaia[1], Rifkat Muhamedrahimov[1], Elena Grigorenko[1,2,3]; [1]Saint-Petersburg State University, Saint-Petersburg, Russia, [2]Yale University, New Haven, CT, USA, [3]Haskins Laboratories, New Haven, CT, USA*

B42 The relationship between inter-hemispheric resting-state connections and language development in the first year of life *Monika Molnar[1], Borja Blanco[1], Manuel Carreiras[1,2,3], Cesar Caballero-Gaudes[1]; [1]Basque Center on Cognition, Brain, and Language (BCBL), Donostia, Spain, [2]IKERBASQUE. Basque Foundation for Science, Bilbao, Spain, [3]University of the Basque Country, UPV/EHU, Spain*

Language Disorders

B43 Cohesion of cortical language networks in the alpha EEG band during word processing is predicted by a common polymorphism in the SETBP1 gene *Sergey Kornilov[1,2,3,4], Nicole Landi[2,5], Maria Lee[1], James Magnuson[2,5], Elena Grigorenko[1,2,3,6]; [1]Yale University, [2]Haskins Laboratories, [3]Saint-Petersburg State University, [4]Moscow State University, [5]University of Connecticut, [6]Moscow City University for Psychology and Education*

B44 Neurodevelopmental Trajectory of Syntactic Processing Related to Recovery or Persistence in Children Who Stutter *Evan Usler[1], Christine Weber[1]; [1]Purdue University*

B45 Temporal Endogenous Attention Modulates Rule Learning in Children with Specific Language Impairment *Anna Martinez-Alvarez[1,3], Spiros Christou[1], Maria Jose Buj Pereda[5], Monica Sanz-Torrent[1], Ferran Pons[1,4], Ruth de Diego-Balaguer[1,2,3]; [1]University of Barcelona, [2]ICREA, [3]Cognition and Brain Plasticity, IDIBELL, [4]Institute for Brain, Cognition and Behaviour, [5]UOC*

B46 The relationship between novel word learning and anomia treatment success *David Copland[1], Jade Dignam[1], Penni Burfein[2], Kate O'Brien[1], Alicia Rawlings[1], Anna Farrell[2], Eril McKinnon[1], Amy Rodriguez[1]; [1]University of Queensland, [2]Royal Brisbane & Women's Hospital*

B47 Hippocampal Contributions to Language Development: Evidence of Poor Hippocampus-dependent Declarative Memory in Developmental Language Impairment (DLI) *Joanna C. Lee[1], Sarah Brown-Schmidt[2], Melissa Duff[1]; [1]the University of Iowa, [2]the University of Illinois, Urbana-Champaign*

B48 Effective connectivity of the naming network in post-stroke chronic aphasia *Erin Meier[1], Kushal Kapse[1], Swathi Kiran[1]; [1]Boston University*

B49 Bilingualism and language networks in the semantic variant of primary progressive aphasia. *Ismael Luis Calandri[1], María Alejandra Amengual[1], Mauricio Farez[1], Hernán Chavez[1], Cecilia Rollán[1], María Cristina Medina[1], Liliana Sabe[1], Silvia Vazquez[1], Ricardo Allegri[1]; [1]Institue of Neurological Research Dr Raúl Carrea, FLENI, Argentina*

Lexical Semantics

B50 Semantic features and concepts in the left and right angular gyrus *Megan Reilly[1], Natalya Machado[1], David Badre[1,2], Sheila Blumstein[1,2]; [1]Cognitive, Linguistic and*

Psychological Sciences, Brown University, [2]Brown Institute for Brain Science

B51 Surrounding linguistic context influences the role of neural oscillations underlying word learning *Adam Zeller[1], Alyson D. Abel[1], Julie M. Schneider[2], Brittany J. Sharp[1], Mandy J. Maguire[2]; [1]San Diego State University, [2]University of Texas at Dallas*

B52 Cross-modal representation of spoken and written word meaning in anterodorsal pars triangularis *Antonietta Gabriella Liuzzi[1], Rose Bruffaerts[1], Patrick Dupont[1], Katarzyna Adamczuk[1], Ronald Peeters[2], Simon De Deyne[3], Gerrit Storms[3], Rik Vandenberghe[1,2]; [1]Laboratory for Cognitive Neurology, University of Leuven, Belgium, [2]University Hospitals Leuven, Leuven, Belgium., [3]Laboratory of Experimental Psychology, University of Leuven, Belgium*

B53 Differences in resolving within-language lexical competition for monolingual and bilingual speakers – electrophysiological evidence *Beinan Zhou[1], Camillo Porcaro[2], Andrea Krott[1]; [1]School of Psychology, University of Birmingham, [2]LET'S-ISTC-CNR*

B54 Sometimes it takes three to tango: The figurative chef, recipe, and ingredients in the neural architecture of colour knowledge *Rocco Chiou[1], Gina F. Humphreys[1], Matthew A. Lambon Ralph[1]; [1]School of Psychological Sciences, University of Manchester*

B55 Using lexical semantic ambiguity to distinguish information-specific from domain-general processing *William Graves[1], Samantha Mattheiss[1], Edward Alexander[1]; [1]Rutgers University - Newark*

B56 Separate brain networks dynamically represent perceptual and categorical information of object concepts in the human brain *Gangyi Feng[1], Suiping Wang[1], Hsuan-Chih Chen[2]; [1]South China Normal University, [2]Chinese University of Hong Kong*

B57 An ERP investigation of the role of prediction and individual differences in semantic priming *Lauren Covey[1], Caitlin Coughlin[1], María Martínez-García[1], Adrienne Johnson[1], Xiao Yang[1], Cynthia Siew[1], Travis Major[1], Robert Fiorentino[1]; [1]University of Kansas*

B58 Is upper better than lower? ERP correlates of letter degradation in visual word recognition *Marta Vergara-Martinez[1], Montserrat Comesaña[2], Manuel Perea[1,3]; [1]Universitat de Valencia, Spain, [2]University of Minho, Portugal, [3]Basque Center on Congition, Brain and Language, Spain*

B59 The bilateral inferior parietal lobules in support of Chinese multi-character word recognition *Nan Lin[1,2], Xi Yu[3,4], Ying Zhao[5], Xingshan Li[1], Yanchao Bi[5]; [1]Key Laboratory of Behavioral Science, Institute of Psychology, Chinese Academy of Sciences, Beijing, China, [2]Magnetic Resonance Imaging Research Center, Institute of Psychology, Chinese Academy of Sciences, Beijing, China, [3]Laboratories of Cognitive Neuroscience, Division of Developmental Medicine, Department of Medicine, Children's Hospital Boston, Boston, MA, USA, [4]Harvard Medical School, Boston, MA, USA, [5]State Key Laboratory of Cognitive Neuroscience and Learning & IDG/McGovern Institute for Brain Research, Beijing Normal University, Beijing, China*

B60 Neural oscillations related to word learning from auditory context *Alyson D. Abel[1], Madalyn Long[1], Julia N. Price[1]; [1]San Diego State University*

B61 A Brain-Based Componential Model of Semantic Representation Correctly Classifies Words into Superordinate Categories *Leonardo Fernandino[1], Colin Humphries[1], Lisa Conant[1], Rutvik Desai[2], Jeffrey Binder[1]; [1]Medical College of Wisconsin, [2]University of South Carolina*

Orthographic Processing, Writing, Spelling

B62 Peripheral Response to Foveal Word Stimuli in Retinotopically Mapped V1 *John Hogan[1], Adrian Toll[1], Joseph T Devlin[1]; [1]University College London*

B63 Large-scale functional networks connect differently for processing words and symbol strings *Mia Liljeström[1,2,3], Johanna Vartiainen[1,2,3], Jan Kujala[1,2], Riitta Salmelin[1,2]; [1]Aalto University, Espoo, Finland, [2]Aalto NeuroImaging, [3]The authors share equal contribution*

B64 The neural mechanisms of vertical reading fluency in competitive Scrabble players *Sophia van Hees[1,2], Sabine Seyffarth[1], Penny Pexman[1,2], Filomeno Cortese[1,2], Andrea Protzner[1,2]; [1]University of Calgary, [2]Hotchkiss Brain Institute*

B65 Examining the effective connectivity of the ventral occipito-temporal cortex during visual word processing with combined TMS-EEG *Samuel Planton[1], Mireille Bonnard[2], Deirdre Bolger[3], Chotiga Pattamadilok[1]; [1]Aix Marseille Université, CNRS, LPL UMR 7309, 13100, Aix-en-Provence, France, [2]Aix Marseille Université, Institut de Neurosciences des Systèmes, INSERM, UMR 1106, Marseille, France, [3]Labex Brain and Language Research Institute, France*

B66 Response Retrieval and Motor Planning During Typing *Svetlana Pinet[1], Anne-Sophie Dubarry[1,2], F.-Xavier Alario[1]; [1]Aix Marseille Université, CNRS, LPC UMR 7290, [2]INSERM, UMR 1106, Institut de Neurosciences des Systèmes*

B67 Magnetoencephalography (MEG) evidence for the bidirectional mapping consistency between orthography and phonology in Chinese character recognition *Wei-Fan Chen[1], Pei-Chun Chao[2], Ya-Ning Chang[1], Chun-Hsien Hsu[1], Chia-Ying Lee[1,2]; [1]Academia Sinica, Taiwan, [2]National Yang-Ming University, Taiwan*

B68 The neural underpinnings of reading skill in deaf adults *Karen Emmorey[1], Stephen McCullough[1], Jill Weisberg[1]; [1]San Diego State University*

Syntax, Morphology

B69 Delta-band oscillatory phase predicts formation of syntactic phrases: electroencephalography evidence from attachment ambiguities *Lars Meyer[1], Maren Grigutsch[1], Molly J. Henry[2], Noura Schmuck[3], Phoebe Gaston[4], Angela D. Friederici[1]; [1]Department of Neuropsychology, Max Planck Institute for Human Cognitive and Brain Sciences, 04303 Leipzig, Germany, [2]Brain and Mind Institute, University of Western Ontario, Ontario, Canada N6G 1H1, [3]Department of English and Linguistics, Johannes Gutenberg University, 55128 Mainz, Germany, [4]Neuroscience of Language Laboratory, New York University, New York, NY 10003, USA*

B70 Do we pre-activate linguistic information when processing predictable morpho-syntactic regularities? *Anastasia Klimovich-Simth[1], Elisabeth Fonteneau[1], William Marslen-Wilson[1,2]; [1]Department of Psychology, University of Cambridge, [2]MRC Cognition and Brain Sciences Unit, Cambridge*

B71 Neural Correlates of Syntactic Movement *Eduardo Europa[1], Cynthia K. Thompson[1,2,3]; [1]Northwestern University, [2]Feinberg School of Medicine, [3]Cognitive Neurology and Alzheimer's Disease Center*

B72 The effect of degree of automaticity in processing hierarchical structure in arithmetic and language *Hyeon-Ae Jeon[1], Angela Friederici; [1]Max Planck Institute for Human Cognitive and Brain Sciences*

B73 Syntactic LAN and P600 effects dissociate with experience to anomalous sentences *Shannon McKnight[1], Albert Kim[1]; [1]University of Colorado Boulder*

B74 Expectation effects in syntactic processing – evidence from ambiguous sentence structures *Leon Kroczek[1], Thomas C. Gunter[1]; [1]Max Planck Institute for Human Cognitive and Brain Sciences*

B75 Differentiating Types of Grammatical Illusions: a Closer Look at Escher Sentences *Patrick Kelley[1], Karthik Durvasula[1], Alan Beretta[1]; [1]Michigan State University*

Poster Session C

Friday, October 16, 10:00 am – 12:00 pm
French and Walton Rooms

Control, Selection, Working Memory

C1 Alpha power in young and older adults' attention at a cocktail party *Chad Rogers[1], Lisa Payne[2], Sujala Maharjan[2], Robert Sekuler[2], Arthur Wingfield[2]; [1]Washington University in St. Louis, [2]Brandeis University*

C2 Wait for it: Predicted Error vs. Prediction Error in Language Processing *Phillip M. Alday[1], Jona Sassenhagen[2], Scott Coussens[1], Ina Bornkessel-Schlesewsky[1]; [1]University of South Australia, [2]Goethe University Frankfurt*

C3 ERP Effects for Prominence in Reference Resolution *James R. Monette[1], John E. Drury[1]; [1]Stony Brook University*

C4 Dissociating the effects of genetics and bilingualism during cognitive control: fMRI evidence from Spanish-English bilinguals *Kelly A Vaughn[1], Aurora I Ramos-Nuñez[1], Maya R Greene[1], Arturo E Hernandez[1]; [1]University of Houston*

C5 Lesions to lateral prefrontal cortex impair control over response selection in word production *Vitoria Piai[1,2], Stéphanie K. Riès[1,2], Diane Swick[2,3]; [1]Helen Wills Neuroscience Institute and Department of Psychology, University of California, Berkeley, CA, USA, [2]VA Northern California Health Care System, Martinez, CA, USA, [3]Department of Neurology, Center for Neuroscience, Center for Mind and Brain, University of California, Davis, CA, USA*

C6 Electrophysiological Predictors of Successful Memory During Encoding of Sentential Information Vary Based on Constraint and Predictability *Ryan J Hubbard[1], Joost Rommers[1], Cassanda L Jacobs[1], Kara D Federmeier[1]; [1]University of Illinois, Urbana-Champaign*

C7 Structural connections of the medial prefrontal cortex: Dividing motor, semantic and default mode networks *Rebecca L. Jackson[1], Claude J. Bajada[1], Matthew A. Lambon Ralph[1], Lauren L. Cloutman[1]; [1]University of Manchester*

C8 Distinct temporal and prefrontal contributions to word retrieval in picture naming *Stephanie Ries[1], David King-Stephens[2], Kenneth D. Laxer[2,4], Peter B. Weber[2], Rachel A. Kuperman[3], Kurtis I. Auguste[3,4], Peter Brunner[5], Gerwin Schalk[5], Josef Parvizi[6], Nathan Crone[7], Nina F. Dronkers[8,9,10], Robert T. Knight[1]; [1]Department of Psychology, Helen Wills Neuroscience Institute, University of California, Berkeley, CA, USA., [2]California Pacific Medical Center, San Francisco, CA, USA., [3]UCSF Benioff Children's Hospital Oakland, CA, USA., [4]University of California San Francisco, CA, USA., [5]New York State Department of Health, Wadsworth Center, and Department of Neurology, Albany Medical College, Albany, NY, USA, [6]Stanford Human Intracranial Cognitive Electrophysiology Program (SHICEP), Stanford University, California, USA., [7]Department of Neurology, The Johns Hopkins University School of Medicine, Baltimore, Maryland, USA., [8]VA Northern California Health Care System, CA, USA., [9]University of California, Davis, CA, USA., [10]National Research University Higher School of Economics, Russian Federation.*

C9 Inhibitory TMS over the left inferior frontal gyrus increases semantic interference in blocked-cyclic naming. *Denise Y. Harvey[1], Rachel Wurzman[1], Priyanka P. Shah-Basak[2], Olufunsho Faseyitan[1], Daniela L. Sacchetti[1], Roy H. Hamilton[1]; [1]University of Pennsylvania, [2]The Hospital for Sick Children*

C10 Mindfulness modulates cognitive control during lexical-semantic categorization: fMRI evidence *Nick B. Pandža[1], Stefanie E. Kuchinsky[1], Valerie P. Karuzis[1], Henk J. Haarmann[1]; [1]University of Maryland*

C11 Evidence for genetic regulation of the human parieto-occipital 10 Hz rhythmic activity *Hanna Renvall[1], Elina Salmela[2], Jan Kujala[1], Osmo Hakosalo[2], Juha Kere[2,3], Riitta Salmelin[1]; [1]Aalto University, [2]University of Helsinki, [3]Karolinska Institutet*

Discourse, Combinatorial Semantics

C12 Experience with fiction influences connectivity in the extended language network *Roel Willems[1,2], Franziska Hartung[2], Peter Hagoort[1,2]; [1]Donders Institute for Brain, Cognition and Behaviour, Radboud University, Nijmegen, The Netherlands, [2]Max Planck Institute for Psycholinguistics, Nijmegen, The Netherlands*

Control, Selection, Working Memory

C13 The relationship between cognitive control and speech: a dual-task behavioral study *Alvaro Diaz[1], Yuji Yi[1], Peter Whitehead[1], Lauren Kothe[1], Corianne Rogalsky[1]; [1]Arizona State University*

C14 Language deficits induced by topiramate (TPM) administration *christopher barkley[1], angela birnbaum[1,2], mingzhou ding[3], Serguei Pakhomov[2,4], Lynn Eberly[5], Chao Wang[6], Susan Marino[1,2]; [1]Experimental and Clinical Pharmacology, University of Minnesota, [2]Center for Clinical and Cognitive Neuropharmacology, University of Minnesota, [3]The J. Crayton Pruitt Family Department of Biomedical Engineering, University of Florida, [4]Pharmaceutical Care and Health Systems, University of Minnesota, [5]Division of Biostatistics, School of Public Health, University of Minnesota, [6]The Henry M. Jackson Foundation for the Advancement of Military Medicine, Inc., Uniformed Services University of the Health Sciences*

C15 Oscillatory Dynamics While Reading Poetry: A Specific Role for Pre-Stimulus Alpha *Stefan Blohm[1,2], Mathias Scharinger[1,3], Matthias Schlesewsky[2,4], Winfried Menninghaus[1]; [1]Max Planck Institute for Empirical Aesthetics, Frankfurt, Germany, [2]University of Mainz, Germany, [3]University of Leipzig, Germany, [4]University of South Australia, Adelaide, Australia*

C16 Free Verbal fluency in Comparison with more Common Verbal Fluency Tests: an fMRI Study *Roza Vlasova[1], Ekaterina Pechenkova[1], Valentin Sinitsyn[1]; [1]Federal Center for Medicine and Rehabilitation*

Language Development, Plasticity, Multilingualism

C17 Pace of vocabulary development in preschool years is associated with individual differences in brain structure in school years *Ozlem Ece Demir[1], Salomi S. Asaridou[2], Susan Goldin-Meadow[1], Steven L. Small[1,2]; [1]University of Chicago, [2]University of California, Irvine*

C18 Behavioral and Neural (fMRI) Evidence for Improved Lexical Learning in a Paired Associate Learning Paradigm After a Period of Offline Consolidation *Nicole Landi[1,2], Stephen Frost[2], Jeff Malins[2], Jim Magnuson[1,2], Jay Rueckl[1,2], W.Einar Mencl[2], Ken Pugh[1,2]; [1]University of Connecticut, [2]Haskins Laboratories*

C19 Short- and long-term effects of anodal transcranial direct current stimulation on language learning in ageing *Garon Perceval[1], David Copland[1], Matti Laine[2], Greig de Zubicaray[3], Marcus Meinzer[1]; [1]The University of Queensland, Centre for Clinical Research, Brisbane, Australia, [2]Abo Akademi University, Department of Psychology, Turku, Finland, [3]Queensland University of Technology, Faculty of Health and Institute of Health and Biomedical Innovation, Brisbane, Australia*

C20 Aging-Resilient Associations between Arcuate Fasciculus Microstructure and Vocabulary Knowledge *Susan Teubner-Rhodes[1], Kenneth I. Vaden Jr.[1], Stephanie Cute[1], Jason D. Yeatman[2], Robert F. Dougherty[3], Mark A. Eckert[1]; [1]Medical University of South Carolina, [2]University of Washington, [3]Stanford University*

C21 Social interaction and contextual constraints influence adult word learning *Sonja Kotz[1,2], Laura Verga[2]; [1]School of Psychological Sciences, University of Manchester, Manchester, UK, [2]Dept. of Neuropsychology, MPI for Human Cognitive and Brain Sciences, Leipzig, Germany*

C22 Cortical mechanisms for rapid lexicon acquisition: online neurophysiological measures *Yury Shtyrov[1], Lilli Kimppa[2], Eino Partanen[1], Miika Leminen[1,2], Max Garagnani[3], Alina Leminen[1]; [1]Center for Functionally Integrative Neuroscience, Aarhus University, Denmark, [2]Cognitive Brain Research Unit, Helsinki University, Finland, [3]Brain Language Laboratory, Free University Berlin, Germany*

C23 Learning novel action- and object-related words – an fMRI study *Max Garagnani[1,2], Evgeniya Kirilina[1], Friedemann Pulvermüller[1]; [1]Freie Universität Berlin, [2]University of Plymouth*

C24 Neural basis of novel word learning in Spanish-English bilinguals *Roberto Ferreira[1], Gabriella Vigliocco[2], David Vinson[2]; [1]Universidad Catolica de la Santisima Concepcion, [2]University College London*

C25 Neural mechanisms associated with second language learning from social contexts *Hyeonjeong Jeong[1,2], Motoaki Sugiura[1], Wataru Suzuki[3], Satoru Yokoyama[4], Benjamin Thyreau[1], Hiroshi Hashizume[1], Kei Takahashi[1], Ryuta Kawashima[1]; [1]Tohoku University, Sendai, Japan, [2]Japan Society for the Promotion of Science, Tokyo, Japan, [3]Miyagi University of Education, Sendai, Japan, [4]Chiba Institute of Science, Chiba, Japan*

C26 Selective interference during memory consolidation of novel words in adults *Laura Kaczer[1], Eithan Hochman[1], Luz Bavassi[1], María Eugenia Pedreira[1]; [1]Laboratorio de Neurobiología de la Memoria. IFIByNE, CONICET. Facultad de Ciencias Exactas y Naturales. Universidad de Buenos Aires, Argentina*

C27 Does lexical production decline during normal ageing? An fMRI study *Monica Baciu[1,2], Naila Boudiaf[1,2], Emilie Cousin[1,2,4], Cédric Pichat[1,2], Nathalie Fournet[2,3], Alexandre Krainik[4,5]; [1]Univ. Grenoble Alpes, LPNC, F-38040 Grenoble, France, [2]CNRS, LPNC UMR 5105, F□38040 Grenoble, France, [3]Univ. Savoie Montblanc, LPNC, F-73000 Chambéry, France, [4]UMS IRMaGe, IRM 3T Recherche, CHU Grenoble, Univ. Grenoble Alpes, F-38043 Grenoble, France, [5]GIN-Neuroimagerie Fonctionnelle et Perfusion Cérébrale, Univ. Grenoble Alpes, F-38043 Grenoble, France*

Language Disorders

C28 Does Naming Accuracy Improve Through Self-Monitoring of Errors? *Myrna Schwartz[1], Erica Middleton[1], Adelyn Brecher[1], Maureen Gagliardi[1], Kelly Garvey[1]; [1]Moss Rehabilitation Research Institute*

C29 Psychophysiological interaction analysis reveals increased connectivity between the inferior frontal lobes following left hemisphere stroke related to worse naming performance *Laura Skipper-Kallal[1], Elizabeth H. Lacey[1], Shihui Xing[1], Katherine Spiegel[1], Mackenzie E. Fama[1], Peter E. Turkeltaub[1]; [1]Georgetown University Medical Center*

C30 Object and action naming in patients before and after glioma resection *Anna Chrabaszcz[1], Svetlana Buklina[2], Valeria Tolkacheva[1], Anna Poddubskaya[2], Olga Dragoy[1]; [1]Neurolinguistics Laboratory Higher School of Economics Moscow Russia, [2]Scientific Research Neurosurgery Institute of N. N. Burdenko*

C31 The left fusiform gyrus is the crucial region underlying the core deficits of semantic dementia *Junhua Ding[1], Keliang Chen[2], Yan Chen[1], Yuxing Fang[1], Qing Yang[2], Yingru Lv[2], Nan Lin[3], Yanchao Bi[1], Qihao Guo[2], Zaizhu Han[1]; [1]Beijing Normal University, [2]Huashan Hospital, Fudan University, [3]Chinese Academy of Sciences*

C32 Does communication make aphasia therapy more efficient?: Evidence from a cross-over randomized controlled trial *Friedemann Pulvermuller[1], Benjamin Stahl[1], Guglielmo Lucchese[1], Felix Dreyer[1], Bettina Mohr[2]; [1]Freie Universität Berlin, [2]Charite Universitätsmedizin Berlin*

C33 Improved Reading and Concurrent Increased BOLD Activation Following Intensive Aphasia Treatment *Edna Babbitt[1,2,3], Xue Wang[2], Todd Parrish[2], Leora Cherney[1,2]; [1]Rehabilitation Institute of Chicago, [2]Feinberg School of Medicine, Northwestern University, [3]University of Queensland*

C34 Verb-Based Integration and Prediction in Primary Progressive Aphasia (PPA) *Jennifer Mack[1], Stephanie Gutierrez[1], Marsel Mesulam[1], Cynthia Thompson[1]; [1]Northwestern University*

C35 Functional Connectivity of Abstract and Concrete Networks in Persons with Aphasia and Neurologically Healthy Adults *Chaleece Sandberg[1]; [1]Penn State*

Lexical Semantics

C36 Perceptual and conceptual semantic dimensions: where and when? *Valentina Borghesani[1,2,3], Evelyn Eger[2], Marco Buiatti[3], Manuela Piazza[3]; [1]Université Pierre et Marie Curie, Paris 6, Paris, France, [2]Cognitive Neuroimaging Unit, INSERM, Gif sur Yvette, France, [3]Center for Mind/Brain Sciences, University of Trento, Italy*

C37 The neural substrates of conceptualizing actions at varying levels of abstraction *David Kemmerer[1], Robert Spunt[2], Ralph Adolphs[2]; [1]Purdue University, [2]California Institute of Technology*

C38 Comparing Apples and Oranges: Does lexical ambiguity have effect on conceptual representations of ambiguous words? *Olessia Jouravlev[1,2], Debra Jared[2]; [1]MIT, [2]University of Western Ontario*

C39 Early prediction effects and delayed context effects during task-free sentence comprehension *Trevor Brothers[1], Tamara Y. Swaab[1,2], Matthew J. Traxler[1,2]; [1]University of California, Davis, [2]UC Davis Center for Mind and Brain*

C40 Role of Features and Categories in the Organization of Object Knowledge: Evidence from Adaptation fMRI *Tatiana Schnur[1], Jingyi Geng[1]; [1]Rice University*

C41 Distinguishing concrete and abstract senses in polysemy: the role of the ventral anterior temporal lobe *Yuan Tao[1], Andrew J. Anderson[2], Massimo Poesio[1,3]; [1]Centro interdipartimentale Mente/Cervello (CiMEC), University of Trento, Italy, [2]University of Rochester,*

USA, [3]School for Computer Science and Electronic Engineering,University of Essex, UK

C42 The semantics of adjective-noun phrases in the brain *Alona Fyshe[1], Tom Mitchell[1]; [1]Carnegie Mellon University*

C43 Complement Coercion Revisited: The Structured Individual Hypothesis for Processing Aspectual Verbs *Yao-Ying Lai[1], Cheryl Lacadie[2], Todd Constable[2], Ashwini Deo[1], Maria Mercedes Piñango[1]; [1]Yale University, [2]Yale Magnetic Resonance Research Center*

C44 Relationality in left inferior parietal cortex: Evidence from MEG *Adina Williams[1], Liina Pylkkänen[1,2,3]; [1]Department of Linguistics, New York University, New York, NY, USA, [2]NYUAD Institute, New York University Abu Dhabi, Abu Dhabi, UAE, [3]Department of Psychology, New York University, New York, NY, USA*

C45 Age-related semantic prediction reduction was associated with smaller brain activation change *Zude Zhu[1], Shiwen Feng[1]; [1]Jiangsu Normal University*

C46 Effects of prediction and contextual support on lexical processing in young and older readers as a function of language experience and working memory *Shruti Dave[1], Trevor Brothers[1], Matthew Traxler[1], Tamara Swaab[1]; [1]University of California, Davis*

C47 ERP evidence for dynamic updating of new word knowledge *Xiaoping Fang[1], Charles Perfetti[1]; [1]University of Pittsburgh*

Methods

C48 Reliability of language network BOLD activation *Xue Wang[1], Xiaowei Song[1], Jennie Mack[1], David Caplan[2], Swathi Kiran[3], Brenda Rapp[4], Cynthia Thompson[1], Todd Parrish[1]; [1]Northwestern University, [2]Havard Medical School, [3]Boston University, [4]Johns Hopkins University*

C49 From Tract Structure to Tract Function: Investigating the Arcuate Fasciculus BOLD Signal *Stephen Bailey[1], Laurie Cutting[1], Zhaohua Ding[1]; [1]Vanderbilt University*

C50 Brain-wide networks subserving sentence processing show distinct spectral fingerprints *Jan Mathijs Schoffelen[1,2], Nietzsche Lam[1,2], Andre Marquand[2], Annika Hulten[3], Peter Hagoort[1,2]; [1]Max Planck Institute for Psycholinguistics, Nijmegen, Netherlands, [2]Radboud University, Donders Institute for Brain, Behaviour and Cognition, Nijmegen, Netherlands, [3]Aalto University, Department for Neuroscience and Biomedical Engineering, Aalto, Finland*

C51 The Tract Terminations in the Language Network of the Temporal Lobe *Claude Julien Bajada[1], Matthew A. Lambon Ralph[1], Geoff J. M. Parker[2,3,4], Hamied A. Haroon[2,3,4], Hojjatollah Azadbakht[2,3,4], Lauren L. Cloutman[1]; [1]Neuroscience and Aphasia Research Unit (NARU), School of Psychological Sciences, The University of Manchester, UK, [2]Manchester Academic Health Science Centre, Manchester, UK, [3]Biomedical Imaging Institute, The University of Manchester, Manchester, UK, [4]Centre for Imaging Sciences, Institute of Population Health, The University of Manchester, Manchester, UK*

C52 The use of Natural Language Processing combined with voxel-based lesion-symptom mapping in chronic post-stroke aphasia *Ezequiel Gleichgerrcht[1], John Delgaizo[1], Julius Fridriksson[2], Chris Rorden[2], Alexandra Basilakos[2], Leonardo Bonilha[1]; [1]Medical University of South Carolina, [2]University of South Carolina*

C53 Reliability and validity of four commonly used language mapping paradigms *Stephen Wilson[1], Alexa Bautista[1], Melodie Yen[1], Stefanie Lauderdale[1]; [1]University of Arizona*

C54 Right Cerebellum and Language Areas: a Seed Based rs-fMRI Analysis *Svetlana Kuptsova[1], Roza Vlasova[2], Alexey Petrushevsky[1], Oksana Fedina[1]; [1]Center for Speech Pathology and Neurorehabilitation, [2]Federal Center for Medicine and Rehabilitation*

Motor Control, Speech Production, Sensorimotor Integration

C55 Neural mechanisms underlying techniques for enhancing fluency in people who stutter: Same or different? *Jennifer Chesters[1], Riikka Möttönen[1], Kate. E. Watkins[1]; [1]Department of Experimental Psychology, University of Oxford*

C56 Disrupted feedforward but spared feedback control during speech in patients with cerebellar degeneration *Benjamin Parrell[1], John Houde[2], Srikantan Nagarajan[2], Richard Ivry[1]; [1]University of California, Berkeley, [2]University of California, San Francisco*

C57 Limb Apraxia in American Sign Language *David Corina[1], Svenna Pedersen[2], Cindy Faranady[2], Corianne Rogalsky[3], Gregory Hickok[4], Ursula Bellugi[2]; [1]University of California, Davis, [2]The Salk Institute for Biological Studies, [3]Arizona State University, [4]University of California, Irvine*

C58 Beta modulation reflects name retrieval in the human anterior temporal lobe: An intracranial electrode study *Taylor Abel[1], Ariane Rhone[1], Kirill Nourski[1], Hiroto Kawasaki[1], Hiroyuki Oya[1], Matthew Howard[1], Daniel Tranel[1]; [1]University of Iowa*

C59 The interaction between the rhythms of perceived and produced speech *M. Florencia Assaneo[1], David Poeppel[1,2]; [1]Department of Psychology, New York University, [2]Max Planck Institute*

C60 Stammering and synchronised speech *Sophie Meekings[1], Kyle Jasmin[1], S.K. Scott[1]; [1]University College London*

C61 Monitoring of pitch and formant trajectories during speech in Parkinson's disease *Fatemeh Mollaei[1,2], Douglas M. Shiller[1,3], Shari R. Baum[1,2], Vincent L. Gracco[1,2]; [1]Centre for Research on Brain, Language and Music, [2]McGill University, [3]Université de Montréal*

C62 Microstructural differences in right hemisphere tracts of adults who stutter *Vered Kronfeld-Duenias[1], Ofer Amir[2], Ruth Ezrati-Vinacour[2], Michal Ben-Shachar[1]; [1]Bar-Ilan University, [2]Tel-Aviv University*

C63 Objective monitoring of dysarthria in FTD-MND: a case study *Matthew Poole[1,2], Amy Brodtmann[2,3], David Darby[2,3], Adam P Vogel[1,2,4]; [1]University of Melbourne, Australia, [2]Eastern Cognitive Disorders Clinic, Melbourne, Australia, [3]Florey Institute of Neuroscience and Mental Health, Melbourne, Australia, [4]University of Tubingen, Germany*

Signed Language

C64 Deaf signers are less reliant than hearing non-signers on fact retrieval from verbal long term memory during arithmetic processing: fMRI evidence *Josefine Andin[1], Örjan Dahlström[1], Peter Fransson[2], Jerker Rönnberg[1], Mary Rudner[1]; [1]Linnaeus Centre HEAD, Dept of Behavioural Sciences and Learning, Linköping University, [2]Stockholm Brain Insitute, Dept of Clinical Neuroscience, Karolinska Institute*

Syntax, Morphology

C65 A neural marker of the construction of sentence meaning *Evelina Fedorenko[1], Terri Scott[2], Peter Brunner[3,4,5], William Coon[3,4,5], Gerwin Schalk[3,4,5], Nancy Kanwisher[6]; [1]MGH, [2]BU, [3]Wadsworth Center, [4]Albany Medical College, [5]State University of NY at Albany, [6]MIT*

C66 Neural correlates of syntactic subjecthood *John T. Hale[1], Jonathan R. Brennan[2], Wen-Ming Luh[3], Christophe Pallier[4]; [1]Department of Linguistics, Cornell University, [2]Department of Linguistics, University of Michigan, [3]MRI Facility and Department of Biomedical Engineering, Cornell University, [4]INSERM-CEA Cognitive Neuroimaging Unit, Neurospin center, Univ. Paris-Saclay*

C67 Examining individual differences in the processing of pronominal reference using event-related potentials *Alison Gabriele[1], Robert Fiorentino[1], Lauren Covey[1]; [1]University of Kansas*

C68 A parametric study of hierarchical structure building in fMRI and MEG *William Matchin[1], Christopher Hammerly[2], Ellen Lau[1]; [1]University of Maryland, [2]University of Massachusetts*

C69 Electrophysiological evidence for recovery of meaning of elliptical sentences *Bobby Ruijgrok[1,2], Crit Cremers[1,2], Lisa L. Cheng[1,2], Niels O. Schiller[1,2]; [1]Leiden University Centre for Linguistics, [2]Leiden Institute for Brain and Cognition*

C70 Hemispheric differences in processing Chinese referential expressions—an ERP investigation *Zih-Yu Shen[1], Chia-Ho Lai[1], Chia-Lin Lee[1]; [1]National Taiwan University*

C71 ERP effects of expectation and task attenuation on head reassignment in German compounds *Joseph Jalbert[1], Tyler Roberts[1], Alan Beretta[1]; [1]Michigan State University*

C72 ERP Signatures of Attachment Height Variations in English *Angel Ramirez-Sarmiento[1], Arild Hestvik[1]; [1]University of Delaware*

C73 Vikings who can gulp down beer mugs, cook bean cans, and slurp wine glasses: An ERP study of ambiguous heads in complex Icelandic words *Drew Trotter[1], Karthik Durvasula[1], þórhalla Guðmundsdóttir Beck[2], Matthew Whelpton[2], Joan Maling[3], Alan Beretta[1]; [1]Michigan State University, [2]University of Iceland, [3]Brandeis University*

C74 Differential ERP and EEG Effects of Contextual Cue Type and Relative Clause Attachment during Sentence Reading *Megan A. Boudewyn[1]; [1]University of California, Davis*

C75 From minimal dependencies to sentence context: Neural correlates of agreement processing. *Ileana Quinones[1], Molinaro Nicola[1], Mancini Simona[1], Carreiras Manuel[1,2,3]; [1]BCBL, Basque Center on Cognition, Brian and Language, [2]IKERBASQUE. Basque Foundation for Science. Bilbao, Spain, [3]University of the Basque Country, UPV/EHU. Bilbao, Spain.*

Poster Session D

Friday, October 16, 1:00 – 3:00 pm
French and Walton Rooms

Discourse, Combinatorial Semantics

D1 Pupil dilation in natural story listening during fMRI *Katerina Kandylaki[1], Jens Sommer[1], Tilo Kircher[1], Richard Wiese[1], Ina Bornkessel-Schlesewsky[2]; [1]University of Marburg, [2]University of South Australia*

D3 Neural Oscillation Patterns during Natural Reading Vary with Text Complexity and Reading Skill *Erika J C Laing[1,2,3], Ben Rickles[4], Kim Muth[1], Charles Perfetti[1]; [1]University of Pittsburgh, [2]Carnegie Mellon University, [3]University of Pittsburgh Medical Center, [4]Georgia State University*

D4 EEG can track the time course of successful reference resolution in small visual worlds. *Christian Brodbeck[1,2], Laura Gwilliams[1,2], Liina Pylkkänen[1,2]; [1]New York University, [2]NYUAD Institute*

D5 Neural basis for discourse comprehension—a quantitative meta-analysis of neuroimaging studies *Xiaohong Yang[1], Huijie Li[1], Nan Lin[1], Yufang Yang[1]; [1]Key Laboratory of Behavioral Science, Institute of Psychology, Chinese Academy of Sciences*

D6 Simulation and mental imagery of complex events: differences and communalities. *Franziska Hartung[1], Peter Hagoort[1,2], Roel M. Willems[1,2]; [1]Max Planck Institute for Psycholinguistics, [2]Radboud University Nijmegen, Donders Institute for Brain, Cognition and Behaviour*

D7 The language network and the Theory of Mind network show synchronized activity during naturalistic language comprehension *Alexander Paunov[1], Idan Blank[2], Evelina Fedorenko[3]; [1]Massachusetts Institute of Technology*

D8 Use of contextual information and prediction in reading by low-literate adults: an ERP and reading-time study *Shukhan Ng[1], Kara D. Federmeier[1], Elizabeth A. L. Stine-Morrow[1]; [1]University of Illinois at Urbana-Champaign*

D9 Visual attention, meaning, and grammar: neuro-computational modeling of situated language use. *Victor Barrès[1], Michael Arbib[1]; [1]University of Southern California*

D10 Altering mechanisms of combinatorial semantics through brain stimulation to the angular gyrus *Amy Price[1], Jonathan Peelle[2], Michael Bonner[1], Murray Grossman[1], Roy Hamilton[1]; [1]Center for Cognitive Neuroscience, University of Pennsylvania, Philadelphia, PA, [2]Department of Otolaryngology, Washington University in St. Louis, St. Louis, MO*

D11 The grass is not always greener: Property integration in adjective-noun combinations *Sarah Solomon[1], Sharon Thompson-Schill[1]; [1]University of Pennsylvania*

D12 Motor coordination predicts literal and figurative action sentence processing in stroke *Rutvik Desai[1], Troy Herter[1], Chris Rorden[1], Julius Fridriksson[1]; [1]University of South Carolina*

D13 Composition of complex numbers: Delineating the computational role of the left anterior temporal lobe *Esti Blanco-Elorrieta[1,2], Liina Pylkkänen[1,2]; [1]New York University, [2]NYUAD Institute*

D14 The grounding of temporal metaphors *Vicky T. Lai[1], Rutvik H. Desai[1]; [1]University of South Carolina*

D15 N400 Modulation Profile Across Sentential Contexts Informs Time Course of Semantic Activation During Referential Processing *Cybelle Smith[1], Kara D. Federmeier[1]; [1]University of Illinois, Urbana-Champaign*

D16 Event-related brain potentials reflect processing of object-state representations in language comprehension *Xin Kang[1], Markus van Ackeren[2], Gerry Altmann[3]; [1]Chinese University of Hong Kong, [2]Università degli Studi di Trento, [3]University of Connecticut*

D17 Frontal theta and disconfirmed predictions *Joost Rommers[1], Danielle S. Dickson[1], James J.S. Norton[1], Edward W. Wlotko[2], Kara D. Federmeier[1]; [1]University of Illinois, [2]Tufts University*

Language Development, Plasticity, Multilingualism

D18 Repetition priming in object naming is associated with repetition suppression, earlier termination of activity, and changes in task-engaged neural synchrony *Stephen Gotts[1], Alexandra Ossowski[1], Shawn Milleville[1], Alex Martin[1]; [1]National Institute of Mental Health, NIH*

D19 Simultaneous Interpreting Training Induces Brain Structural Connectivity Changes *Alexis Hervais-Adelman[1,2], Barbara Moser-Mercer[2], Narly Golestani[1]; [1]Brain and Language Lab, Faculty of Medecine, University of Geneva, [2]Department of Interpreting, Faculty of Translation and Interpreting, University of Geneva*

D20 ERP and time-frequency analysis of intra-sentential codeswitching in bilinguals *Kaitlyn Litcofsky[1], Janet G. van Hell[1,2]; [1]Pennsylvania State University, [2]Radboud University Nijmegen*

D21 Working memory and context of learning: Accounting for individual differences in second-language processing signatures over time *Mandy Faretta-Stutenberg[1], Darren Tanner[2], Kara Morgan-Short[3]; [1]Northern Illinois University, [2]University of Illinois at Urbana-Champaign, [3]University of Illinois at Chicago*

D22 Bilingualism modulates the white matter tracts of the arcuate fasciculus *Sini Jakonen[1], Viljami Sairanen[2,3], Alina Leminen[1,4], Minna Lehtonen[1,5]; [1]Cognitive Brain Research Unit, Cognitive Science, Institute of Behavioural Sciences, University of Helsinki, Finland, [2]Laboratory of Medical Physics, Department of Physics, University of Helsinki, Finland, [3]HUS Medical Imaging Center, Radiology, University of Helsinki and Helsinki University Hospital, Finland, [4]Center of Functionally Integrative Neuroscience, Department of Clinical Medicine, Aarhus University, Denmark, [5]Department of Psychology, Abo Akademi University, Turku, Finland*

D23 A new approach to examine the relationship between brain responses to Mandarin lexical tone changes and reading ability *En-Ju Lin[1], Chia-Ying Lee[1]; [1]Academia Sinica*

D24 Examining structural lateralization in language areas of the brain using components of volume *Meredith A. Scheppele[1], Julia L. Evans, Ph.D., CCC-SLP[1,2], Timothy T. Brown, Ph.D.[2]; [1]University of Texas at Dallas, [2]University of California, San Diego*

D25 Verbal memory specialists (Vedic Sanskrit Pandits) show white matter increases in language, memory and visual tracts *James Hartzell[1], Ben Davis[1], Jorge Jovicich[1], Tanmay Nath[2], Nandini Chatterjee Singh[2], Uri Hasson[1]; [1]Center for Mind/Brain Sciences (CIMeC), University of Trento, Italy, [2]National Brain Research Centre (NBRC), Manesar, Gurgaon Dist., Haryana, India*

D26 Early vocabulary growth and white matter microstructure: dorsal or ventral? *Salomi Asaridou[1], Özlem Demir[2], Susan Goldin-Meadow[2], Steven Small[1]; [1]Department of Neurology, University of California, Irvine, [2]Department of Psychology, University of Chicago*

D27 The neural network of reading: Does writing help the brain accommodate for linguistic diversity? *Aurelie Lagarrigue[1], Marieke Longcamp[2], Jean-Luc Anton[3], Bruno Nazarian[3], Laurent Prevot[4], Jean-Luc Velay[2], Fan Cao[5], Cheryl Frenck-Mestre[2]; [1]Brain and Language Research Institut, CNRS Université d'Aix-Marseille, France, [2]Lab. Neurosciences Cognitives, UMR 7291 CNRS Université Aix Marseille, France, [3]Centre IRMf, Institut des Neurosciences de la Timone, UMR 7289 CNRS Université Aix Marseille, France, [4]Lab. Parole et Langage (LPL) - UMR 6057 - CNRS Université de Provence, France, [5]Michigan State University*

D28 The relationship between hemispheric lateralization for speech production and language proficiency in young children: A longitudinal fTCD study *Heather Payne[1,2], Bencie Woll[2], Mairead MacSweeney[1,2]; [1]Instititute of Cognitive Neuroscience, UCL, [2]ESRC Deafness, Cognition & Language Research Centre, UCL*

D29 Improving foreign accent by optimizing variability in vocal learning *Anna J Simmonds[1], Robert Leech[1], Richard J S Wise[1]; [1]Imperial College London, UK*

D30 Visual properties of object semantics are experience related *Peter Boddy[1], Eiling Yee[1,2]; [1]Basque Center on Cognition Brain and Language, [2]University of Connecticut*

D31 Development of neural processes for language in young children: A longitudinal event-related potential study *Amanda Hampton Wray[1]; [1]Michigan State University*

Lexical Semantics

D32 An episodic component of lexical knowledge *Emilia Fló[1,2], Camila Zugarramurdi[1], Álvaro Cabana[1], Juan Valle Lisboa[1,2]; [1]Facultad de Psicología, Universidad de la República., [2]Facultad de Ciencias, Universidad de la República.*

D33 Vertical presentation effects to lexical access and predictability in the cerebral hemispheres *Yoana Vergilova[1], Heiner Drenhaus[1], Matthew Crocker[1]; [1]Saarland University*

D34 Grounding Education on brainwaves: Evidence from semantic categorization *Paolo Canal[1], Simona Di Paola[2], Chiara Bertini[2], Irene Ricci[2], Pier Marco Bertinetto[2], Andrea Moro[1], Valentina Bambini[1]; [1]Center for Neurocognition Epistemology and Theoretical Syntax, Institute for Advanced Study (IUSS), Pavia, Italy, [2]Laboratorio di Linguistica "G. Nencioni" Scuola Normale Superiore, Pisa, Italy*

D35 The internal mechanism and brain oscillatory signature of semantic prediction during sentence comprehension *Xiaoqing Li[1], Yufang Yang[1]; [1]Key Laboratory of Behavioral Science, Institute of Psychology, Chinese Academy of Sciences (Beijing, China)*

D36 Do brain activations differ between semantic-association and semantic-categorization at an early stage in visual word recognition? *Yi-Chen Lin[1,2], Wen-Jui Kuo[1,2]; [1]Institute of Neuroscience, National Yang-Ming University, Taipei, Taiwan, [2]Laboratories for Cognitive Neuroscience, National Yang-Ming University, Taipei, Taiwan*

D37 Melting or Breaking the Ice: Controlled Semantic Retrieval is Related to Microstructural Differences in Long-Range Fiber Pathways. *Tehila Nugiel[1], Kylie H. Alm[1], Ashley Unger[1], Ingrid R. Olson[1]; [1]Temple University*

D38 Hemispheric differences in sublexical ambiguity resolution during Chinese word reading *Hsu-Wen Huang[1], Chia-Ying Lee[2]; [1]National Chiao Tung University, [2]Institute of Linguistics, Academia Sinica*

Motor Control, Speech Production, Sensorimotor Integration

D40 Semantic competition during word production is supported by the domain-general multiple-demand system *Daniel Kleinman[1], Victor Ferreira[1], Zuzanna Balewski[2], Evelina Fedorenko[3]; [1]University of California, San Diego, [2]Massachusetts Institute of Technology, [3]Massachusetts General Hospital*

D41 ERP investigation of semantic facilitation in picture naming *Grégoire Python[1,2], Raphaël Fargier[1], Marina Laganaro[1]; [1]FPSE, University of Geneva, Geneva, Switzerland., [2]Neurorehabilitation Unit, Department of Clinical Neurosciences, CHUV, Lausanne, Switzerland*

D42 Incremental activation of semantic representations in sentence production: an fMRI study *Juliane Muehlhaus[1,2,3], Stefan Heim[1,2,4], Fabian Altenbach[5], Ute Habel[1,2], Ferdinand Binkofski[6], Katharina Sass[1]; [1]Department of Psychiatry, Psychotherapy and Psychosomatics, Uniklinik RWTH Aachen, Aachen, Germany, [2]JARA Translational Brain Medicine, [3]Department of Applied Health Sciences, University of Applied Sciences, Bochum, Germany, [4]Institute of Neurosciences and Medicine (INM-1), Research Centre Jülich, Jülich, Germany, [5]Institute for Theoretical Information Technology, RWTH Aachen University, Aachen, Germany, [6]Section Neurological Cognition Research, Department of Neurology, Uniklinik RWTH Aachen, Aachen, Germany*

D43 Can we reliably measure language lateralization? *Lisa Bruckert[1], Dorothy V. M. Bishop[1], Kate E. Watkins[1]; [1]Department of Experimental Psychology, University of Oxford*

D44 A combined tDCS-eye tracking investigation of the neural correlates of confrontation naming: investigating the necessity of the anterior temporal lobe vs. the temporo-parietal junction *Sameer Ashaie[1], Jamie Reilly[2], Bonnie M. Zuckerman[2], Richard J. Binney[2]; [1]Speech-Language-Hearing Sciences, CUNY Graduate Center, New York City, NY, USA, [2]Eleanor M. Saffran Center for Cognitive Neuroscience, Department of Communication Sciences and Disorders, Temple University, Philadelphia, PA, USA*

D45 Task dynamics of sensorimotor learning and control in speech production. *Benjamin Elgie[1,2], Shari Baum[1,2], Vincent Gracco[1,2,3]; [1]McGill University, [2]Centre for Research on Brain Language and Music, [3]Haskins Laboratories*

D46 Voluntary imitation of fundamental frequency and vocal tract length in human speech – a multimodal investigation using functional and real-time anatomical MRI. *Carolyn McGettigan[1,2], Daniel Carey[1], Valentina Cartei[3], Marc Miquel[4]; [1]Royal Holloway, University of London, UK, [2]UCL Institute of Cognitive Neuroscience, UK, [3]University of Sussex, UK, [4]Queen Mary, University of London, UK*

Orthographic Processing, Writing, Spelling

D47 Early Visual Brain Responses During Reading Reflect the Length of Words that are Predictable but Never Seen *Leif Oines[1,2], Albert Kim[1,2]; [1]University of Colorado Dept. of Psychology and Neuroscience, [2]University of Colorado Institute of Cognitive Science*

D48 Levels of representation during single word reading: Evidence from representation similarity analysis *Simon Fischer-Baum[1], Emilio Tamez[2], Donald Li[3]; [1]Rice University, [2]University of Pennslyvania, [3]Johns Hopkins University*

D49 Modality Specific Lexico-Semantic Encoding for Visual & Auditory Language *Erik Kaestner[1], Ksenija Marinkovic[2], Daniel Friedman[4], Patricia Dugan[4], Orrin Devinsky[4], Sydney Cash[3], Thomas Thesen[4], Eric Halgren[1]; [1]University of California, San Diego, [2]California State University, San Diego, [3]Massachusetts General Hospital, [4]New York University*

D50 Consistency of Phonological-Orthographic Binding: Electrophysiological Correlates of Feedforward and Feedback Consistency in Chinese *I-Fan Su[1], Hyun Kyung Lee[1], Tung-Yi Mak[1]; [1]University of Hong Kong*

D51 Different Levels of Sub-lexical Representation in Reading Chinese: The Effects of Logographeme and Radical Independence *I-Fan Su[1], Sin Ko[1], Pik-Kei Liu[1], Hyun Kyung Lee[1]; [1]University of Hong Kong*

D52 The different effects of Semantic and Phonetic Radicals in Chinese Phonogram Recognition: Evidence from ERPs *Yan Wu[1], Xieshun Wang[1], Simin Zhao[1]; [1]Department of Psychology, Northeast Normal University*

D53 Word Superiority and Memorial Inferiority for Cursive Handwriting *Anthony Barnhart[1], Stephen Goldinger[2]; [1]Carthage College, [2]Arizona State University*

D54 Early encoding of radical position legality in Chinese character reading: An ERP study *Sam Po Law[1], Yen Na Yum[1], I-Fan Su[1]; [1]University of Hong Kong*

D55 Spatial and temporal dynamics of homophone density and phonetic consistency effects in writing Chinese characters: an MEG study *Pei-Chun Chao[1], Wei-Fan Chen[2], Ya-Ning Chang[2], Chun-Hsien Hsu[2], Chia-Ying Lee[1,2]; [1]National Yang-Ming University, Taiwan, [2]Academia Sinica, Taiwan*

D56 ERP reveals radical processing in Chinese character recognition:Evidence from semantic categorization *Yuan Wang[1], Yan Wu[1]; [1]Department of Psychology, Northeast Normal University*

D57 The influence of bottom-up and top-down information on the activation of orthographic, phonological and semantic representations during reading *Chotiga Pattamadilok[1], Valérie Chanoine[2], Jean-Luc Anton[3], Bruno Nazarian[3], Christophe Pallier[3], Pascal Belin[4], Johannes Ziegler[5]; [1]Aix Marseille Université, CNRS, LPL UMR 7309, 13100, Aix-en-Provence, France, [2]Labex Brain and Language Research Institute, France, [3]Aix-Marseille Université CNRS, INT UMR 7289, Centre IRM Fonctionnelle Cérébrale, Marseille, France, [4]INSERM-CEA Cognitive Neuroimaging Unit, Neurospin center, Gif-sur-Yvette, France, [5]Aix-Marseille Université, CNRS, Laboratoire de Psychologie Cognitive, UMR 7290, Marseille, France*

D58 Network coherence in the resting state: Differences between orthographic networks and evolutionarily older networks *Gali Ellenblum[1], Jeremy J. Purcell[1], Xiaowei Song[2,3,4], Robert W. Wiley[1], Brenda Rapp[1]; [1]Johns Hopkins University, [2]Northwestern University, [3]National Institutes of Health, [4]University of Maryland*

Phonology, Phonological Working Memory

D59 Why 'inpossible' is 'umproblematic': the perception of alternating prefixes *Laurie Lawyer[1], David Corina[1]; [1]Center for Mind and Brain, University of California, Davis*

D60 ERP evidence of implicit and explicit phonological rule learning *Lap-Ching Keung[1], Claire Moore-Cantwell[1], Joe Pater[1], Robert Staubs[1], Benjamin Zobel[1], Lisa D. Sanders[1]; [1]University of Massachusetts Amherst*

D61 Non-perceptual regions support phonological short-term memory: evidence for a buffer account *Qiuhai Yue[1], Randi C. Martin[1], A. Cris Hamilton[1]; [1]Rice University, Houston, TX, 77251, USA*

D62 Attentive Versus Pre-attentive Neural Processing of Allophony and Phonemic Contrast *Joseph CY Lau[1], Patrick CM Wong[1,2]; [1]The Chinese University of Hong Kong, [2]Northwestern University*

D63 Voicing Underspecification in English Fricatives *Karthik Durvasula[1], Drew Trotter[1], Alan Beretta[1]; [1]Michigan State University*

D64 Neural basis of conflict resolution in encoding and retrieval interference *Andrew Jahn[1], Hannah Jones[1], Clinton Johns[1], Dave Kush[1], Morgan Bontrager[1], Stephen Frost[1], Julie Van Dyke[1]; [1]Haskins Laboratories, Yale University*

Syntax, Morphology

D65 Cortical Entrainment to Constituent Structure in Language Acquisition *Heidi Getz*[*1], Nai Ding*[*2,3], Elissa Newport[1], David Poeppel[2,4]; [1]Georgetown University, [2]New York University, [3]Zhejiang University, [4]Max Planck Institute for Empirical Aesthetics*

D66 Parsing in the monolingual and bilingual brain: ERP evidence of automatic simultaneous access to morphosyntactic information in L1 and L2 *Laura Hedlund[1], Alina Leminen[1,2], Lilli Kimppa[1], Teija Kujala[1], Yury Shtyrov[2,3]; [1]Cognitive Brain Research Unit, Institute of Behavioural Sciences, University of Helsinki, Helsinki, Finland, [2]Center of Functionally Integrative Neuroscience, Aarhus University, Denmark, [3]Centre for Cognition and Decision Making, Higher School of Economics, Moscow, Russia*

D67 Finding agreement: An on-line study of gender processing, in adults and children *Lauren Fromont[1,2], Phaedra Royle[1,2], Karsten Steinhauer[2,3]; [1]École d'orthophonie et d'audiologie, Université de Montréal, [2]Centre for Research on Brain, Language and Music, [3]School of Communication Sciences and Disorders, McGill University*

D68 Dissociating scrambling from topicalization for activations in the grammar centers: An fMRI study in Kaqchikel Maya *Shinri Ohta[1,2], Masatoshi Koizumi[3], Kuniyoshi L. Sakai[1,2]; [1]The University of Tokyo, [2]CREST, JST, [3]Tohoku University*

D69 Short Self Paced Listening Times in Syntactic Comprehension: Implications for Deficits *David Caplan[1], Jennifer Michaud[1], Rebecca Hufford[1], Gloria Waters[2]; [1]Neuropsychology Lab, MGH, [2]Boston University*

D70 Abstract Linguistic Structure Correlates with Anterior Temporal Activity during Naturalistic Comprehension *Jonathan R. Brennan[1], Edward P. Stabler[2], Sarah E. Van Wagenen[2], Wen-Ming Luh[3], John T. Hale[4]; [1]Department of Linguistics, University of Michigan, [2]Department of Linguistics, University of California, Los Angeles, [3]MRI Facility and Department of Biomedical Engineering, Cornell University, [4]Department of Linguistics, Cornell University*

D71 Early EEG indices of syntactic expectation reflect both linear and hierarchical dependencies *Jonathan Brennan[1], Max Cantor[1], Rachael Eby[1], John Hale[2]; [1]University of Michigan, [2]Cornell University*

D72 Neural mechanisms of passive sentence processing: univariate versus multivariate pattern analysis (MVPA) *Elena Barbieri[1], Julia Schuchard[1], Cynthia Thompson[1,2,3]; [1]Aphasia and Neurolinguistics Laboratory, Department of Communication Sciences and Disorders, Northwestern University, Evanston, IL, [2]Department of Neurology, Northwestern University, Chicago, IL, [3]Cognitive Neurology and Alzheimer's Disease Center, Northwestern University, Chicago, IL*

D73 ERP Effects of Scrambling in Korean *MyungKwan Park[1], Euiyon Cho[1], Wonil Chung[1]; [1]Dongguk University*

D74 Honorific (Mis)Match with a Null Subject in Korean: An ERP Study *Euiyon Cho[1], MyungKwan Park[1], Wonil Chung[1]; [1]Dongguk University*

D75 No association of genetic variants of FOXP2 and BOLD response during sentence processing *Julia Udden[1,2], Annika Hulten[1,2], Katerina S. Kucera[1], Arianna Vino[1], Simon E. Fisher[1,2], Peter Hagoort[1,2]; [1]Max Planck Institute for Psycholinguistics, Nijmegen, the Netherlands., [2]Donders Institute for Brain, Cognition and Behaviour, Radboud University, Nijmegen, the Netherlands.*

Poster Session E

Friday, October 16, 5:30 – 7:30 pm
French and Walton Rooms

Animal Communication

E1 Mapping genes implicated in speech and language phenotypes in the bat brain *Pedro Rodenas Cuadrado[1], Uwe Firzlaff[2], Sonja C. Vernes[1,3]; [1]Max Planck Institute for Psycholinguistics, [2]Lehrstuhl für Zoologie, [3]Donders Centre for Cognitive Neuroimaging*

Language Development, Plasticity, Multilingualism

E2 Fiber pathways supporting early literacy in young children *Iris Broce[1], Natalie Baez[1], Luis Cabrera[1], Gretter Hernandez[1], Anthony Dick[1]; [1]Florida International University, Miami, FL*

E3 Risky readers? Event-related brain potentials reveal age-related changes in the recruitment of parafoveal visual attention in reading. *Brennan Payne[1], Mallory C. Stites[2], Kara D. Federmeier[1]; [1]University of Illinois at Urbana-Champaign, [2]SUNY Binghamton*

E4 Age of acquisition of the second language modulates structural and functional dynamics in bilingual reading *Myriam Oliver[1], Manuel Carreiras[1,2], Pedro M. Paz-Alonso[1]; [1]BCBL. Basque Center on Cognition, Brain and Language, Donostia-San Sebastian, Spain, [2]IKERBASQUE, Basque Foundation for Science, Bilbao, Spain*

E5 How does L1 influence L2 processing in the brain? Evidence from Korean-English and Chinese-English bilinguals *Say Young Kim[1], Fan Cao[2]; [1]National University of Singapore, [2]Michigan State University*

E6 An ERP study of sublexical phonological access in L2 Chinese character reading *Yen Na Yum[1], Sam-Po Law[1]; [1]University of Hong Kong*

E7 Anodal tDCS over left temporo-parietal cortex modulates working memory capacity in sentence processing *Carina Krause[1], Bernhard Sehm[1], Angela D. Friederici[1], Hellmuth Obrig[1,2]; [1]Max Planck Institute for Human Cognitive and Brain Sciences, [2]Day Clinic of Cognitive Neurology, Faculty of Medicine, University of Leipzig*

E8 School-aged children consolidate foreign language regularities overnight: behavioral evidence and cortical substrates *Anni Nora[1,2], Leena Karvonen[1,2], Tiina Parviainen[3], Hanna Renvall[1,2], Elisabet Service[4], Riitta Salmelin[1,2]; [1]Department of Neuroscience and Biomedical Engineering, Aalto University, Espoo, Finland, [2]Aalto NeuroImaging, Aalto University, Espoo, Finland, [3]Department of Psychology, University of Jyväskylä, Jyväskylä, Finland, [4]Department of Linguistics and Languages, McMaster University, Hamilton, Canada*

E9 Developmental changes in the functional and structural connectivity within brain networks involved in phonological processing *Bethany Sussman[1], Yanni Liu[2], Fan Cao[1]; [1]Michigan State University, [2]University of Michigan*

E10 Examining the role of 'auditory cortex' in congenitally deaf adults *Tae Twomey[1], Dafydd Waters[1], Cathy Price[1], Mairéad MacSweeney[1]; [1]University College London*

E11 When Language is First Learned in Adulthood: Neural Language Processing is Persistently Atypical *Rachel Mayberry[1], Tristan Davenport[1], Eric Halgren[1]; [1]UC San Diego*

Language Disorders

E12 Connections and selections: A computational investigation of word production in aphasia *Grant Walker[1], Gregory Hickok[1]; [1]University of California, Irvine*

E13 Prediction of speech impairment from the damage to grey and white matter in chronic stroke *Grigori Yourganov[1], Julius Fridriksson[1], Leonardo Bonilha[2], Ezequiel Gleichgerrcht[2], Chris Rorden[1]; [1]University of South Carolina, [2]Medical University of South Carolina*

E14 Connectome-based symptom mapping identifies structural neural systems that support clinical language performance *Ezequiel Gleichgerrcht[1], Grigori Yourganov[2], Chris Rorden[2], Julius Fridriksson[2], Leonardo Bonilha[1]; [1]Medical University of South Carolina, [2]University of South Carolina*

E15 Cortical activation patterns correlate with speech understanding after cochlear implantation *Heather Bortfeld[1], Cristen Olds[2], Luca Pollonini[3], Homer Abaya[2], Jannine Larky[2], Megan Loy[2], Michael Beauchamp[4], John Oghalai[2]; [1]University of California, Merced, [2]Stanford University, [3]University of Houston, [4]Baylor College of Medicine*

E16 Aphasia classification and evolution across various disease etiologies: a quantitative approach *Joline Fan[1], Nina Dronkers[2,3], Maria Luisa Gorno-Tempini[1], Edward Chang[4]; [1]Department of Neurology, University of California, San Francisco, CA, USA, [2]Center for Aphasia and Related Disorders, VA Northern California Health Care System, Martinez, CA, USA, [3]Department of Neurology, University of California, Davis, CA, USA, [4]Department of Neurological Surgery, University of California, San Francisco, CA, USA*

E17 Testing Wordle: Development of a Mobile App for Rehabilitation of Aphasia *Mackenzie Stabile[1], Erica Middleton[1], John Detre[2], Christian Murphy[2]; [1]Moss Rehabilitation Research Institute, [2]University of Pennsylvania*

E18 Neurodevelopmental Trajectories of Thalamic Volume in Control and Dyslexic Readers *Garikoitz Lerma-Usabiaga[1], Manuel Carreiras[1,2], Pedro M. Paz-Alonso[1]; [1]BCBL. Basque Center on Cognition, Brain and Language, Donostia-San Sebastián, Spain, [2]IKERBASQUE, Basque Foundation for Science, Bilbao, Spain*

E19 Understanding the contribution of FOXP genes in language-related disorders. *Pelagia Deriziotis[1], Arianna Vino[1], Christian Gilissen[2], Henning Frohlich[3], Sarah A Graham[1], Rolph Pfundt[2], Danai Dimitropoulou[1], Han Brunner[2,4], Gudrun Rappold[3], Simon E Fisher[1,5]; [1]Max Planck Institute for Psycholinguistics, Nijmegen, the Netherlands, [2]Radboud Institute for Molecular Life Sciences and Donders Centre for Neuroscience, Radboud University Medical Center, Nijmegen, the Netherlands, [3]Ruprecht-Karls-University, Heidelberg, Germany, [4]Maastricht University Medical Centre, Maastricht, the Netherlands, [5]Donders Institute for Brain, Cognition and Behaviour, Radboud University, Nijmegen, the Netherlands*

E20 Language impairments in traumatic brain injury: A case series *Michelle Hall[1], Lauren Cloutman[1], Anna Woollams[1]; [1]University of Manchester*

E21 Investigating the integrity of major white matter tracts in aphasia *Maria Ivanova[1], Dmitry Isaev[1], Olga Dragoy[1], Yulia Akinina[1,2], Alexey Petryshevskii[3], Oksana Fedina[3], Nina Dronkers[1,4,5]; [1]National Research University Higher School of Economics, Moscow, Russia, [2]University of Groningen, Groningen, The Netherlands, [3]Center for Speech Pathology and Neurorehabilitation, Moscow, Russia, [4]VA Northern California Health Care System, Martinez, California, USA, [5]University of California, Davis, California, USA*

E22 Right hemisphere gray matter volume in left hemisphere stroke-induced aphasia: A Voxel-Based Morphometry (VBM) study *Sladjana Lukic[1], Xue Wang[2], Todd Parrish[2], David Caplan[3], Swathi Kiran[4], Brenda Rapp[5], Cynthia K. Thompson[1]; [1]Department of Communication Sciences and Disorders, Northwestern University, [2]Department of Radiology, Northwestern University, [3]Harvard Medical School, [4]Sargent College of Health & Rehabilitation Sciences, Boston University, [5]Department of Cognitive Science, Johns Hopkins University*

E23 Neural Correlates of Impaired Articulation Speed in Aphasia: A Voxel-Based Lesion-Symptom Mapping Study *Sara B. Pillay[1], Alicia Ivory[1], Colin Humphries[1], Diane Book[1], Jeffrey R. Binder[1]; [1]Medical College of Wisconsin*

Lexical Semantics

E24 Using neural network models of conceptual representation to understand the stages of visual object processing in the ventral stream *Barry Devereux[1], Alex Clarke[2], Lorraine Tyler[1]; [1]University of Cambridge, [2]University of California, Davis*

E25 Toward a Brain-Based Componential Semantic Representation *Jeffrey R. Binder[1], Lisa L. Conant[1], Colin J. Humphries[1], Leonardo Fernandino[1], Stephen B. Simons[2], Mario Aguilar[2], Rutvik H. Desai[3]; [1]Medical College of Wisconsin, Milwaukee, WI, USA, [2]Teledyne Scientific, LLC, Durham, NC, USA, [3]University of South Carolina, Columbia, SC, USA*

E26 The brain differentiates between inclusive and exclusive semantic predictions *Jona Sassenhagen[1,2], Christian J. Fiebach[1], Ina Bornkessel-Schlesewsky[2,3]; [1]University of Frankfurt, [2]University of Marburg, [3]University of Adelaide*

E27 Chinese and English speakers share representations for word-elicited concepts, but semantic models struggle to capture this similarity *Benjamin Zinszer[1], Andrew Anderson[1], Olivia Kang[2], Thalia Wheatley[2], Rajeev Raizada[1]; [1]University of Rochester, [2]Dartmouth College*

E28 Decoding Conceptual Information from Heteromodal Cortex *Leonardo Fernandino[1], Colin Humphries[1], Mark Seidenberg[2], William Gross[1], Lisa Conant[1], Jeffrey Binder[1]; [1]Medical College of Wisconsin, [2]University of Wisconsin Madison*

E29 Neural representational profiles of word distributional and sensorimotor properties. *Francesca Carota[1], Hamed Nili[2], Nikolaus Kriegeskorte[3], Friedemann Pulvermueller[4]; [1]Department of Psychology, University of Cambridge, UK, [2]Experimental Psychology Department, University of Oxford, UK, [3]MRC-CBU, Cambridge, UK, [4]Freie Universität, Berlin, Germany*

E30 The timing of semantic coding in the anterior temporal lobe: temporal representational similarity analysis of electrocorticogram data *Yuanyuan Chen[1], Shimotake A[2], Matsumoto R[3], Kunieda T[4], Kikuchi T[4], Miyamoto S[4], Fukuyama H[5], Takahashi R[2], Ikeda A[3], Lambon Ralph M. A.[1]; [1]Neuroscience and Aphasia Research Unit, School of Psychological Sciences, University of Manchester, Manchester, UK, [2]Department of Neurology, Graduate School of Medicine, Kyoto University, Japan, [3]Department of Epilepsy, Movement Disorders and Physiology, Graduate School of Medicine, Kyoto University, Japan, [4]Department of Neurosurgery, Graduate School of Medicine, Kyoto University, Japan, [5]Human Brain Research Center, Graduate School of Medicine, Kyoto University, Japan*

E31 A computational model of lexical semantic/ episodic knowledge. *Juan Valle-Lisboa[1,2], Camila Zugarramurdi[1], Emilia Fló[1,2], Álvaro Cabana[1]; [1]Facultad de Psicología, Universidad de la República Uruguay, [2]Facultad de Ciencias, Universidad de la República Uruguay*

Motor Control, Speech Production, Sensorimotor Integration

E32 'Gift of the gab' linked to changes in prefrontal and premotor activity *Joseph H. Necus[1], Emilia Molimpakis[1], Joseph T. Devlin[1]; [1]University College London, UK*

E33 Dynamics of speech encoding processes under increased attentional demand : an ERP study on dual-tasks interference *Raphael Fargier[1], Marina Laganaro[1]; [1]FPSE, University of Geneva, Geneva, Switzerland*

E34 Neural correlates of audiomotor map learning *Megan Thompson[1,2], Alexander Herman[1,2], Dameon Harrell[1], John Houde[1], Srikantan Nagarajan[1]; [1]University of California, San Francisco, [2]University of California, Berkeley*

E35 High gamma modulations of intracerebral recordings during a picture-naming task : A group analysis *Anne-Sophie Dubarry[1,2], Anaïs Llorens[1,2], Agnès Trébuchon[2,3,4], Romain Carron[5], Catherine Liégeois-Chauvel[2,3], Christian Bénar[2,3], F.-Xavier Alario[1]; [1]Aix Marseille Université, CNRS, LPC UMR 7290, [2]INSERM, UMR 1106, Institut de Neurosciences des Systèmes, [3]Aix Marseille Université, Marseille, France, [4]AP-HM, Service de Neurophysiologie Clinique, Hôpital de la Timone, Marseille, [5]AP-HM, Service de Neurochirurgie Fonctionnelle, Hôpital de la Timone, Marseille*

E36 Tracking double-object naming using the N2pc *Joost Rommers[1,2], Antje S. Meyer[1], Peter Praamstra[2,3]; [1]Max Planck Institute for Psycholinguistics, [2]Radboudumc Nijmegen, [3]Donders Institute for Brain, Cognition, and Behaviour*

E37 The neural basis of proverb usage in a social context *Kelssy Hitomi dos Santos Kawata[1], Rui Nouchi[1], Motoaki Sugiura[1], Sugiko Hanawa[1], Hyeonjeong Jeong[1], Shigeyuki Ikeda[1], Mizue Suzuki[1], Yukako Sasaki[1], Takayuki Nozawa[1], Keyvan Kashkouli Nejad[1], Ryuta Kawashima[1]; [1]Tohoku University*

E38 Functional, acoustic and articulatory outcomes of speech training: a multimodal investigation of native and non-native imitation *Daniel Carey[1], Marc Miquel[2], Bronwen Evans[3], Patti Adank[3], Carolyn McGettigan[1]; [1]Dept. of Psychology, Royal Holloway University of London, [2]Queen Mary University of London & Barts and the London NHS Trust, [3]Dept. of Speech, Hearing & Phonetic Sciences, University College London*

E39 Imitation and language development in deaf and hearing schoolchildren *Emil Holmer[1], Mikael Heimann[2], Mary Rudner[1]; [1]Linnaeus Centre HEAD, Swedish Institute for Disability Research, Department of Behavioural Sciences and Learning, Linköping University, [2]Swedish Institute for Disability Research and Division of Psychology, Department of Behavioural Sciences and Learning, Linköping University*

E40 Language lateralization in right- and left-handed individuals: an fMRI study *Grigory Ignatyev[1], Rosa Vlasova[1,2], Yulia Akinina[1,3], Maria Ivanova[1], Olga Dragoy[1]; [1]National Research University Higher School of Economics, [2]Federal Center of Medicine and Rehabilitation, [3]University of Groningen*

E41 Direct Cortical Recording of Regions Implicated in Speech Production During Pseudoword Articulation *Alexandra Basilakos[1], Leonardo Bonilha[2], Chris Rorden[1], Taylor Hanayik[1], Roozbeh Behroozmand[1], Julius Fridriksson[1]; [1]University of South Carolina, Columbia, SC, [2]Medical University of South Carolina, Charleston, SC*

E42 Syllable is proximate unit of word-form encoding in speech production for Mandarin speakers *Qingfang Zhang[1,2]; [1]Department of Psychology, Renmin University of China, China, [2]Institute of Psychology, Chinese Academy of Sciences, China*

E43 Neural Substrates of Sentence Choice *Malathi Thothathiri[1], Michelle Rattinger; [1]George Washington University*

E44 Talking out of order: does grammatical gender always precede phonology in lexical access? *Kailen Shantz[1], Darren Tanner[1]; [1]University of Illinois at Urbana-Champaign*

Orthographic Processing, Writing, Spelling

E45 Braille Reading in the Visual Cortex of Blind Individuals *Judy Kim[1], Shipra Kanjlia[1], Marina Bedny[1]; [1]Johns Hopkins University*

E46 Building a computational basis for the brain response in visual word recognition: A sparse familiarity model for the left ventral occipito-temporal cortex *Benjamin Gagl[1,2], Fabio Richlan[2], Florian Hutzler[2], Christian Fiebach[1,3]; [1]Department of Psychology, Goethe University Frankfurt, [2]Centre for Neurocognitive Research, University of Salzburg, [3]Center for Individual Development and Adaptive Education of Children at Risk (IDeA), Frankfurt am Main*

E47 Genetic and Environmental Covariation between Cortical Brain Structure (Thickness, Surface Area) and Written Language Ability *Lachlan Strike[1,2], Narelle Hansell[1], Katie McMahon[2], Michelle Luciano[3], Timothy Bates[3], Nicholas Martin[1], Paul Thompson[4], Margie Wright[1,2], Greig de Zubicaray[5]; [1]QIMR Berghofer Medical Research Institute, Brisbane, Australia, [2]University of Queensland, Brisbane, Australia, [3]University of Edinburgh, Edinburgh, UK, [4]University of Southern California, CA, USA, [5]Queensland University of Technology, Brisbane, Australia*

E48 N170 expertise effects differ among skilled and less-skilled adult native English speakers *Ben Rickles[1], Lindsay Harris[2,3], Gwen Frishkoff[1], Charles Perfetti[3]; [1]Georgia State University, [2]Northern Illinois University, [3]University of Pittsburgh*

E49 A Meta-analysis of Neural Systems for Chinese Characters Processing Driven by Stimulus Properties versus Task Demands *Jianfeng Yang[1], Rong Zhao[1], Rong Fan[1], Mengxing Liu[1], Xiaojuan Wang[1]; [1]School of Psychology, Shaanxi Normal University, Xi'an, China*

E50 Microstructural white matter differences between 6-year old readers and prereaders *Katherine Travis[1], Jenna Adams[1], Vanessa Kovachy[1], Michal Ben-Shachar[2,3], Heidi Feldman[1]; [1]Division of Neonatal and Developmental Medicine, Department of Pediatrics, Stanford University School of Medicine, Palo Alto CA, United States, [2]The Gonda Brain Research Center, Bar Ilan University, Ramat Gan, Israel, [3]Department of English Literature and Linguistics, Bar Ilan University, Ramat Gan, Israel*

E51 The effect of aging on the brain network for exception word reading aloud *Maximiliano Wilson[1], Jean-Sebastien Provost[2], Marianne Chapleau[2], Simona Maria Brambati[2]; [1]CRIUSMQ and Université Laval, [2]CRIUGM and Université de Montréal*

E52 Reduced electrophysiological connectivity during visual word recognition in dyslexic children *Gojko Žarić[1], João M. Correia[1], Gorka Fraga González[2], Jurgen Tijms[3], Maurits W. van der Molen[2], Leo Blomert[1], Milene Bonte[1]; [1]Maastricht University, [2]University of Amsterdam, [3]IWAL Institute*

E53 Recovering orthographic knowledge: Contributions of the ventral and dorsal components of the orthographic processing network. *Jeremy Purcell[1], Brenda Rapp[1]; [1]Department of Cognitive Science, Johns Hopkins University, USA*

E54 Neural Correlates of Writing: Voxel-based Lesion Analysis of Single-Word and Sentence-Level Writing *Juliana Baldo[1], Selvi Paulraj[2], Vitoria Piai[3], Amber Moncrief[1], Carl Ludy[1], Brian Curran[1], Nina Dronkers[1,4]; [1]VA Northern California Health Care System, [2]Palo Alto University, [3]University of California, Berkeley, [4]University of California, Davis*

E55 Experimental induction of dyslexia-like reading difficulties in normal readers: Novel insights from MEG *Stefan Heim[1,2], Christina Wolff[1,2], Frank Boers[2], Ralph Weidner[2], Thomas Günther[1], Katarzyna Jednoróg[3], Anna Grabowska[3], Jürgen Dammers[2]; [1]RWTH Aachen University, Aachen, Germany, [2]Research Centre Jülich, Germany, [3]Nencki Institute for Experimental Biology, Warsaw, Poland*

E56 Patterns of Orthographic Working Memory Impairments in Acquired Dysgraphia: A Case Series nalysis *Venu Balasuramanian[1,2], Maha Aldera[1,2]; [1]Seton Hall University, [2]Communication Neuroscience & Aphasia Research Laboratory (CNARL)*

Phonology, Phonological Working Memory

E57 Individual differences in the neural correlates of reading words and passages *Yi-Hui Hung[1,2], W. Einar Mencl[1,2], Jason Zevin[3], Stephen Frost[1], Peter Molfese[1], Laura Mesite[3], Daniel Sharoh[1], Jay Rueckl[4,1], Kenneth Pugh[1,2,4]; [1]Haskins Laboratories, [2]Yale University, [3]University of Southern California, [4]University of Connecticut*

E58 The effects of healthy aging and left hemisphere stroke on statistical language learning *Mackenzie E. Fama[1], Katie D. Schuler[1], Kate A. Spiegel[1], Elizabeth H. Lacey[1,2], Elissa L. Newport[1], Peter E. Turkeltaub[1,2]; [1]Georgetown University, [2]MedStar National Rehabilitation Hospital*

E59 Transdiagnostic neural basis for impaired phonological working memory across reading disability and autism *Zhenghan Qi[1], Chunming Lu[2], Adrianne Harris[1], Lisa Wisman Weil[3], Michelle Han[1], Kelly Halverson[1], Tyler K. Perrachione[3], Margaret Kjelgaard[1], Kenneth Wexler[1], Helen Tager-Flusberg[3], John D. E. Gabrieli[1]; [1]Massachusetts Institute of Technology, [2]Beijing Normal University, [3]Boston University*

E60 Glutamate and Choline Levels predict Individual Differences in Reading Ability *Einar Mencl[1,2], Kenneth Pugh[1,2,3], Stephen Frost[1], Douglas Rothman[2], Fumiko Hoeft[4], Kayleigh Ryherd[3,1], Nicole Landi[3,1,2], Peter Molfese[3,1], Elena Grigorenko[2,1], Leslie Jacobsen[1], Mark Seidenberg[5], Robert Fulbright[2,1]; [1]Haskins Laboratories, [2]Yale University, [3]University of Connecticut, Storrs, [4]University of California, San Francisco, [5]University of Wisconsin, Madison*

E61 How lexical dynamics determine the relative (un) grammaticality of novel wordforms: A Granger analysis of MR-constrained MEG/EEG data *David Gow[1,2,3], Seppo Ahlfors[1,2]; [1]Massachusetts General Hospital, [2]Athinoula A. Martinos Center for Biomedical Imaging, [3]Salem State University*

E62 Flexibility of the human phonological system: investigating the roles of segment, tone, and syllable in Mandarin Chinese using the priming paradigm *Claire Hui-Chuan Chang[1], W.-J. Kuo[1]; [1]Institute of neuroscience, National Yang-Ming University, Taipei, Taiwan*

Syntax, Morphology

E63 Familiarity effects on Language/Music P600 interactions *Nicole E. Calma[1], Laura Staum-Casasanto[2], Dan Finer[1], Robbin Miranda[3], Michael T. Ullman[4], John E. Drury[1]; [1]Stony Brook University, [2]University of Chicago, [3]Infinimetrics Corporation, [4]Georgetown University*

E64 Comprehension of native- and foreign-accented speech: evidence from event-related potentials and neural oscillations *Sarah Grey[1], Janet G. van Hell[1,2]; [1]Pennsylvania State University, [2]Radboud University Nijmegen*

E65 Neural activity in the fronto-temporal language system predicts online language comprehension difficulty *Leila Wehbe[1], Idan Blank[2], Kyle Mahowald[2], Richard Futrell[2], Steven Piantadosi[3], Hal Tily[2], Jeanne Gallee[4], Anastasia Vishnevetsky[2], Edward Gibson[2], Nancy Kanwisher[2], Evelina Fedorenko[5]; [1]Carnegie Mellon University, [2]Massachusetts Institute of Technology, [3]University of Rochester, [4]Wellesley College, [5]Massachusetts General Hospital*

E66 Look before your leap: Careful incremental processing of idiosyncratic partial-agreement: ERP and self-paced reading evidence from Arabic *R. Muralikrishnan[1,2], Ali Idrissi[2,3]; [1]Max Planck Institute for Empirical Aesthetics, [2]NYU Abu Dhabi, [3]Qatar University*

E67 Semantic Blocking revisited: Investigating individual variability in the elicitation of N400 and P600 components using Generalized Additive Mixed Models (GAMMs) *Stefanie Nickels[1,2], Karsten Steinhauer[1,2]; [1]McGill University, [2]Centre for Research on Brain, Language and Music (CRBLM)*

E68 Access to lexical category and verb argument structure in the early stages of processing morphologically complex words: MEG investigations of prefixation *Linnaea Stockall[1], Laura Gwilliams[2], Alec Marantz[4], Christina Manouilidou[3]; [1]Queen Mary University of London, [2]New York University, [3]University of Patras, [4]New York University*

E69 Hemispheric differences in processing word class information—ERP evidence from Chinese *Min-Hsin Chen[1], Chia-Lin Lee[1]; [1]National Taiwan University*

E70 Head commitment and plausibility in English noun-noun compounds *Alicia Parrish[1], Joseph Jalbert[1], Alan Beretta[1]; [1]Michigan State University*

E71 Imagining Accomplishments from Different Visual and Temporal Perspectives *Deanna Hall[1], Todd Ferretti[1], Jeffrey Hong[1]; [1]Wilfrid Laurier University*

E72 Imagining events: The influence of grammatical aspect, lexical aspect, and visual perspective *Jeffrey Hong[1], Todd Ferretti[1], James Siklos-Whillans[1], Deanna Hall[1]; [1]Wilfrid Laurier University*

E73 Representing the stems you can't see: A MEG study of morphological decomposition. *Laura Gwilliams[1,2], Alec Marantz[1,2]; [1]New York University, [2]NYUAD Institute*

E74 Neural Dynamics of Morphological and Phrasal Composition *Yohei Oseki[1], Laura Gwilliams[2], Esti Blanco-Elorrieta[2], Phoebe Gaston[1], Alec Marantz[1,2], Liina Pylkkänen[1,2]; [1]New York University, [2]NYUAD Institute, New York University, Abu Dhabi*

E75 Phonological size matters in the detection of morphosyntactic errors: ERP evidence *Brigitta Fodor[1], John E. Drury[1]; [1]Stony Brook University*

Poster Session F

Saturday, October 17, 10:00 am – 12:00 pm
French and Walton Rooms

Auditory Perception, Speech Perception, Audiovisual Integration

F1 Audiovisual speech perception and presence of the McGurk effect in left-hemisphere stroke patients and matched control participants *Laura Erickson[1], Mackenzie E. Fama[1], Katherine A. Spiegel[1], Elizabeth H. Lacey[1], Laura M. Skipper-Kallal[1], Shihui Xing[1], Josef P. Rauschecker[1], Peter E. Turkeltaub[1,2]; [1]Georgetown University Medical Center, [2]MedStar National Rehabilitation Hospital*

F2 Predictive visual motion facilitates speech perception *David Brang[1,2], Satoru Suzuki[1], Vernon L. Towle[2], James Tao[2], Shasha Wu[2], Marcia Grabowecky[1]; [1]Northwestern University, [2]University of Chicago*

F3 Theta phase sensitization as a flexible neural mechanism for optimized syllable identification *Sanne ten Oever[1], Alexander Sack[1]; [1]Maastricht University*

F4 Increased lip corticobulbar excitability during the perception of non-native phonemes *Judith Schmitz[1], Eleonora Bartoli[2], Laura Maffongelli[2], Luciano Fadiga[2,3], Nuria Sebastian-Galles[1], Alessandro D'Ausilio[2]; [1]Universitat Pompeu Fabra, [2]Istituto Italiano di Tecnologia, [3]Universita di Ferrara*

F5 Is impaired repetition ability following left hemisphere stroke speech specific? *Sarah-Beth Bradford[1], Gregory Hickok[2], Alexandra Basilakos[1], Lorelei Phillip[1], Julius Fridriksson[1]; [1]Univeristy of South Carolina, Columbia, SC, [2]University of California - Irvine*

F6 Motor suppression of the auditory system extends to the brainstem frequency following response and is mediated by attentional demands *Serena Klos[1], Howard C Nusbaum[1]; [1]The University of Chicago*

F7 Sensorimotor representations in the language network during sentence repetition *Kathrin Müsch[1], Taufik A. Valiante[1,2], Kevin Himberger[1], Christopher J. Honey[1]; [1]University of Toronto, Toronto, ON, Canada, [2]Toronto Western Research Institute, Toronto, ON, Canada*

F8 Somatotopic EEG beta-band modulations during speech discrimination *Alessandro D'Ausilio[1], Eleonora Bartoli[1], Laura Maffongelli[1]; [1]Fondazione Istituto Italiano di Tecnologia -IIT*

F9 Feel the noise: Individual differences in perceived vividness of auditory imagery are reflected in human brain structure *Cesar Lima[1], Nadine Lavan[2], Samuel Evans[1], Zarinah Agnew[3], Andrea Halpern[4], Pradheep Shanmugalingam[1], Sophie Meekings[1], Dana Boebinger[1], Markus Ostarek[1], Carolyn McGettigan[2], Jane Warren[5], Sophie Scott[1]; [1]Institute of Cognitive Neuroscience, University College London, [2]Department of Psychology, Royal Holloway University of London, [3]Department of Otolaryngology, University of California, [4]Department of Psychology, Bucknell University, [5]Faculty of Brain Sciences, University College London*

F10 Speech In The Mirror? Neurobiological Correlates of Self-Speech Perception *Avril Treille[1], Coriandre Vilain[1], Sonia Kandel[1], Jean-Luc Schwartz[1], Marc Sato[2]; [1]Univ. Grenoble Alpes, GIPSA-Lab, F-38000 Grenoble, France CNRS, GIPSA-Lab, F-38000 Grenoble, France, [2]Speech and Language Laboratory, CNRS & Aix-Marseille University, France*

F11 Motor Representations of Speech Articulators Are Modulated by Both Motor and Non-Motor Speech Distortions *Helen E Nuttall[1], Daniel Kennedy-Higgins[1], Joseph T Devlin[1], Patti Adank[1]; [1]University College London (UCL), London, UK*

F12 No Evidence of Place of Articulation Feature Mapping in Motor Cortex during Speech Perception *Jessica Arsenault[1,2], Bradley Buchsbaum[1,2]; [1]Rotman Research Institute, Baycrest Hospital, [2]University of Toronto*

F13 Reading Comprehension Ability and Semantic Activation to Single Words and Discourse: An fMRI Partial Least Squares Analysis *Kayleigh Ryherd[1], Emily Baron[2], Kaja Jasinska[2], W. Einar Mencl[2], Nicole Landi[1,2,3]; [1]University of Connecticut, [2]Haskins Laboratories, [3]Yale Child Studies Center*

F14 Modality-independent activity during sentence comprehension *Larissa Cuenoud[1], Sonia Brownsett[2], Fatemeh Geranmayeh[1], Richard Wise[1]; [1]Imperial College London, UK, [2]University College London, UK*

F15 Left posterior segment of the arcuate fasciculus mediates vocabulary comprehension and reading *Naianna Robertsson[1], Stephanie Forkel[1], Flavio Dell'acqua[2], Marco Catani[1]; [1]Natbrainlab, Institute of Psychiatry, psychology and neuroscience, King's College London, London, UK, [2]Centre for neuroimaging sciences, Institute of Psychiatry, psychologyk and neuroscience, King's College London, London, UK*

F16 Computational and Neural Mechanisms of Top-Down Effects on Speech Perception *Neal P. Fox[1], Sheila E. Blumstein[1,2]; [1]Brown University, [2]Brown Institute for Brain Science*

F18 Real-time dynamics of lexical processing in auditory areas revealed with intercranial recordings *Bob McMurray[1], Ariane Rhone[1], Ashley Farris-Trimble[2], Kirill Nourski[1], Hiroto Kawasaki[1], Matthew Howard[1]; [1]University of Iowa, [2]Simon Fraser University*

F19 The neural correlates of linguistic rhythm during natural story listening *Katerina Kandylaki[1], Karen Henrich[1], Arne Nagels[1], Tilo Kircher[1], Ulrike Domahs[3], Ina Bornkessel-Schlesewsky[2], Richard Wiese[1]; [1]University of Marburg, [2]University of South Australia, [3]Libera Università di Bozen-Bolzano*

F20 Timing predictions in speech are affected by attention and speaking rate: evidence from electrophysiological omission responses *Mathias Scharinger[1,2], Alessandro Tavano[2]; [1]BioCog - Cognitive incl. Biological Psychology, Department of Psychology,University of Leipzig, [2]Max Planck Institute for Empirical Aesthetics, Frankfurt*

F21 Interaction of top-down and bottom-up predictions in degraded speech perception *Alessandro Tavano[1,2], Mathias Scharinger[1,2]; [1]BioCog - Cognitive incl. Biological Psychology, Department of Psychology, University of Leipzig, Germany, [2]Max Planck Institute for Empirical Aesthetics, Frankfurt, Germany*

F22 Incremental processing of Chinese spoken words and the influence of fluent speech on lexical competition effects: Evidence from eye movements *Jie-Li Tsai[1], Chung-I Erica Su[2], James Magnuson[3]; [1]National Chengchi Univsersity, Taiwan, [2]National Chiao Tung University, Taiwan, [3]University of Connecticut & Haskins Laboratories, USA*

F23 Speech perception – effects of attentional modulation on syllable processing *Mario Eduardo Archila-Melendez[1], Giancarlo Valente[1], Bernadette Jansma[1]; [1]Department of Cognitive Neuroscience and Maastricht*

Brain Imaging Center (M-BIC), Faculty of Psychology and Neuroscience, Maastricht University, Maastricht, The Netherlands

F24 Neural correlates of individual differences in processing of rising tones in Cantonese: Implications for speech perception and production *Jinghua Ou[1], Sam-Po Law[1]; [1]University of Hong Kong*

F25 The ERP Evidence for the Integration of Lexical Tone and Segmental Information in Chinese Syllable Perception *Rong Zhao[1], Rong Fan[1], Rui Zhang[1], Min Dang[1], Xiaojuan Wang[1], Jianfeng Yang[1]; [1]School of Psychology, Shaanxi Normal University, Xi'an, China*

F26 The time-course of cohort restriction in syntactic context: MEG evidence for a single auditory word-form *Phoebe Gaston[1], Laura Gwilliams[2,3], Alec Marantz[2,3]; [1]University of Maryland, [2]New York University, [3]NYUAD Institute, New York University, Abu Dhabi*

F27 On the Mental Representation of German Strong Verbs: an ERP Study *Natalia Bekemeier[1], Carsten Eulitz[1]; [1]University of Konstanz*

Discourse, Combinatorial Semantics

F28 Adjective conjunction as a window into the LATL's contribution to conceptual combination: Sensitivity to intersective but not collective readings *Eva Poortman[1], Liina Pylkkänen[2,3]; [1]Utrecht University, [2]New York University, [3]New York University Abu Dhabi*

F29 Neurodynamics of minimal visual and written narrative comprehension *Peter Ford Dominey[1,2,3], Anne-Lise Jouen[1,2,3], Nicolas Cazin[1,2,3], Sullivan Hidot[1,2,3], Carol Madden[1,2,3], Jocelyne Ventre-Dominey[1,2,3]; [1]INSERM U846 Stem Cell and Brain Research Institute, [2]University of Lyon, [3]Robot Cognition Laboratory*

F30 Scaling up to a sentence: The temporal unfolding of conceptual specificity and sentential polarity effects in left anterior temporal and medial prefrontal cortex *Linmin Zhang[1], Liina Pylkkänen[1,2]; [1]New York University, [2]NYUAD Institute, New York University Abu Dhabi*

F31 Inferential processing in natural reading vs. RSVP: a FRP vs. ERP study *Jonas Diekmann[1], Dietmar Roehm[1]; [1]University of Salzburg*

F32 Motion-based cues for animacy do not trump actor prototypicality in language comprehension *Svenja Luell[1], Franziska Kretzschmar[1], Phillip M. Alday[2], Friederike Seyfried[3], Ina Bornkessel-Schlesewsky[2], Matthias Schlesewsky[1,3]; [1]Johannes Gutenberg-UniversityMainz, [2]Justus-Liebig-University Giessen, [3]University of South Australia*

F33 Investigating the Neurocognitive Mechanisms Underlying Truth-Conditional and Logical Semantic Aspects of Sentence Processing: An ERP Study *Fayden Sara Bokhari[1,2], Karsten Steinhauer[1,2]; [1]McGill University, [2]Centre for Research on Language, Mind and Brain*

F34 Using neurobiologically-motivated features to investigate the semantic composition of adjectives with nouns *Elizabeth A. Shay[1], Rajeev D. S. Raizada[1]; [1]University of Rochester*

F35 fMRI activity during a spontaneous dialogue task *Emilio R. Tamez[1], John C. Trueswell[1], Marc N. Coutanche[2], Sharon L. Thompson-Schill[1]; [1]University of Pennsylvania, [2]Yale University*

F36 Context matters: ERP evidence provides new insights into the mechanisms of generating and updating predictions in real-time. *Sarah Tune[1], Steven L Small[1]; [1]Department of Neurology, University of California Irvine*

F37 ERP effects of sentential context in semantic number interpretation *Veena Dwivedi[1], Raechelle Gibson[2], Kaitlin Curtiss[1]; [1]Brock University, [2]Western University*

F38 "Before" and "after": investigating the relationship between temporal connectives and chronological ordering using event-related potentials *Stephen Politzer-Ahles[1], Ming Xiang[2], Diogo Almeida[3]; [1]University of Oxford, [2]University of Chicago, [3]New York University Abu Dhabi*

F39 The role of discourse context in pronoun resolution *Kyra Krass[1,2], Christian Navarro-Torres[1], Judith F. Kroll[1], Eleonora Rossi[1]; [1]Pennsylvania State University, [2]University of Connecticut*

Language Development, Plasticity, Multilingualism

F40 How language shapes the brain: cross-linguistic differences in structural connectivity *Tomás Goucha[1,2], Alfred Anwander[1], Emmanuel A Stamatakis[3,4], Lorraine K Tyler[3], Angela D Friederici[1,2]; [1]Max Planck Institute for Human Cognitive and Brain Sciences, [2]Berlin School of Mind and Brain, Humboldt University of Berlin, [3]Centre for Speech, Language and the Brain, University of Cambridge, [4]Division of Anaesthesia, School of Clinical Medicine, University of Cambridge*

F41 Gamma band functional connectivity mirrors the dynamics of novel grammar learning *Olga Kepinska[1,2], Ernesto Pereda[3], Johanneke Caspers[1,2], Niels O. Schiller[1,2]; [1]Leiden University Centre for Linguistics, [2]Leiden Institute for Brain and Cognition, [3]University of La Laguna*

F42 Differential changes in the dorsal language pathway for general development and L2 learning *Kayako Yamamoto[1,2], Kuniyoshi L. Sakai[1,3]; [1]Dept. of Basic Science, Univ. of Tokyo, Komaba, Japan, [2]Japan Society for the*

Promotion of Science, Japan, [3]CREST, Japan Science and Technology Agency, Tokyo, Japan

F43 Language learning efficacy in adults is predicted by the electrophysiological markers of native language processing *Sara Beach[1,2], Zhenghan Qi[1], Amy S. Finn[1], Jennifer Minas[1], Calvin Goetz[1], Brian Chan[1], John D. E. Gabrieli[1]; [1]Massachusetts Institute of Technology, [2]Harvard University*

F44 MEG correlates of short-term grammatical plasticity: Grammatical number processing in Spanish learners of Basque *Ainhoa Bastarrika Iriarte[1], Doug J. Davidson[1]; [1]BCBL. Basque Center on Cognition, Brain and Language; Donostia, Basque Country, Spain*

F45 First-language attrition in morphosyntactic processing: More than L1-proficiency effects *Kristina Kasparian[1,3], Francesco Vespignani[2], Karsten Steinhauer[1,3]; [1]McGill University, [2]University of Trento, [3]Centre for Research on Brain, Language and Music*

F47 Shared syntax for bilinguals extends to language-specific constructions *Eve Higby[1,2], Ibana Vargas[1], Stephanie Perez[1], Wendy Ramirez[1,2], Eva Fernandez[1,2], Valerie Shafer[1], Loraine K. Obler[1]; [1]The Graduate Center of the City University of New York, [2]Queens College, City University of New York*

F48 Associative networks learn abstract grammatical categories *Geoffrey Brookshire[1], Daniel Casasanto[1]; [1]University of Chicago*

F49 Developmental differences in neural oscillations supporting online sentence processing *Julie Schneider[1], Alyson D. Abel[2], Diane Ogiela[3], Middleton A.[1], Maguire M.J.[1]; [1]University of Texas at Dallas, [2]San Diego State University, [3]Idaho State University*

Language Disorders

F50 Separate neural systems support representations for actions and objects during narrative speech *Ezequiel Gleichgerrcht[1], Julius Fridriksson[2], Chris Rorden[2], Alexandra Basilakos[2], Rutvik Desai[2], Leonardo Bonilha[1]; [1]Medical University of South Carolina, [2]University of South Carolina*

F51 Rehabilitating Speech Production and Fluency in Nonfluent Primary Progressive Aphasia: Treatment Outcomes and Patterns of Underlying Atrophy *Stephanie Grasso[1], Isabel Hubbard[2], Wylin Daigle[1], Maria Luisa Gorno-Tempini[2], Maya Henry[1]; [1]University of Texas at Austin, [2]University of California, San Francisco*

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F53 Does Semantic Mediation Contribute to Successful Word Reading in Phonological Aphasia? *Sara B. Pillay[1], William L. Gross[1], Colin Humphries[1], Jeffrey R. Binder[1]; [1]Medical College of Wisconsin*

F54 Alterations of language related oscillatory activity and spontaneous neural dynamics after stroke *Aneta Kielar[1], Tiffany Deschamps[1], Ron Chu[2], Regina Jokel[1,2], Jed A Meltzer[1,2]; [1]Rotman Research Institute, Baycrest Hospital, [2]University of Toronto*

F55 Effects of language and tDCS interventions in PPA and their neural correlates *Kyrana Tsapkini[1], Tushar Chakravarty[1], Yenny Webb-Vargas[2], Martin Lindquist[2], Constantine Frangakis[2], Argye Hillis[1]; [1]Johns Hopkins University, School of Medicine, [2]Johns Hopkins University, Bloomberg School of Public Health*

F56 Neurobiological predictions of reading intervention response: an fMRI study of children with reading difficulties *Laura Barquero[1], Katherine Aboud[1], Laurie Cutting[1]; [1]Vanderbilt University*

F57 Neural correlates of phonological and orthographic processing in children with developmental dyslexia *Xin Yan[1], Deng Yuan[2], Fan Cao[1]; [1]Michigan State University, Department of Communicative Science and Disorders, [2]Chinese Academy of Science, Institute of Psychology*

F58 Reduced P300 and N300 Effects to Printed English Stimuli in Early Poor Readers *Olivia Harold[1], Nina Gumkowski[1], Anish Kurian[1,3], Peter Molfese[1,3], Nicole Landi[1,2,3]; [1]Haskins Laboratories, [2]Yale University School of Medicine, [3]University of Connecticut*

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Lexical Semantics

F60 Neural overlap of L1 & L2 semantic representations in bilinguals *Eowyn Van de Putte[1], Wouter Duyck[1], Wouter De Baene[1,2], Marcel Brass[1]; [1]Ghent University, [2]Tilburg University*

F61 Neural signatures of language co-activation and control in bilingual spoken language comprehension *Peiyao Chen[1], Susan Bobb[1,2], Noriko Hoshino[3], Viorica Marian[1]; [1]Northwestern University, [2]Gordon College, [3]Kobe City University of Foreign Studies*

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F63 Contextual modulation of hippocampal activity during picture naming *Anaïs Llorens[1,2], Anne-Sophie Dubarry[1,2], Agnès Trébuchon[2,3], Patrick Chauvel[2,3], F.-Xavier Alario[1], Catherine Liégeois-Chauvel[2,4]; [1]Aix Marseille Université, CNRS, LPC UMR 7290, [2]INSERM, UMR 1106, Institut de Neurosciences des Systèmes, [3]Aix Marseille Université*

F64 Why is a piece of cake difficult for L2 learners?—An ERP investigation of processing nominal metaphors in L2 *Tzu-Hung Lu[1], Chia-Lin Lee[1]; [1]National Taiwan University*

F65 Differential Impairments of Upper and Lower Limb Movements Influence Action Verb Processing in Parkinson Disease *Ken McRae[1], Angela Roberts[1], JB Orange[1], Peter Nguyen[1]; [1]University of Western Ontario*

F66 Visual vs. Linguistic Narrative Processing in Autism Spectrum Disorders *Emily Coderre[1], Neil Cohn[2], Sally Slipher[1], Mariya Chernenok[1], Kerry Ledoux[1], Barry Gordon[1,3]; [1]Cognitive Neurology/Neuropsychology; Department of Neurology; Johns Hopkins University, [2]Center for Research in Language; University of California, San Diego, [3]Department of Cognitive Science; Johns Hopkins University*

F67 Dissociable intrinsic functional networks support noun and verb processing *Huichao Yang[1], Qixiang Lin[1], Zaizhu Han[1], Hongyu Li[1], Luping Song[2], Yong He[1], Yanchao Bi[1]; [1]State Key Laboratory of Cognitive Neuroscience and Learning & IDG/McGovern Institute for Brian Research, Beijing Normal University, Beijing 100875, China, [2]Rehabilitation College of Capital Medical University, China Rehabilitation Research Center, Beijing 100068, China*

F68 Category influences on semantic error production in aphasia. *Hilary J. Traut[1], Denise Y. Harvey[1,2], Erica L. Middleton[1]; [1]Moss Rehabilitation Research Institute, [2]The University of Pennsylvania*

F69 An eyetracking investigation of semantic access for action concepts: Effects of representational input modality and concurrent motor execution *Jinyi Hung[1], Alexandra Kelly[2], Jamie Reilly[2]; [1]University of Florida, [2]Temple University*

F70 Neural correlates of processing categorical relatedness in youths with autism spectrum disorder *Ciao-Han Wong[1], Susan Shur-Fen Gau[1,2,3,4], Tai-Li Chou[1,3,4]; [1]Department of Psychology, National Taiwan University, Taiwan, [2]Department of Psychiatry, National Taiwan University Hospital and College of Medicine, Taiwan, [3]Neurobiology and Cognitive Science Center, National Taiwan University, Taiwan, [4]Graduate Institute of Brain and Mind Sciences, National Taiwan University, Taiwan*

Motor Control, Speech Production, Sensorimotor Integration

F71 Enhancement for memory of non-words over words during recruitment of the auditory dorsal stream *Keith Doelling[1], Andrew Heusser[1], Bijan Pesaran[1], David Poeppel[1,2]; [1]New York University, New York, NY, [2]Max Planck Institute for Empirical Aesthetics, Frankfurt, Germany*

F72 Auditory predictions of self-produced speech are task-dependent *Caroline Niziolek[1], Srikantan Nagarajan[1], John Houde[1]; [1]University of California, San Francisco*

F73 Shared and unique neural involvement in natural speech production and perception *Anna Maria Alexandrou[1,2], Timo Saarinen[1,2], Sasu Mäkelä[1,2], Jan Kujala[1,2], Salmelin Riitta[1,2]; [1]Department of Neuroscience and Biomedical Engineering, Aalto University, Espoo, Finland, [2]Aalto NeuroImaging, Aalto University, Espoo, Finland*

F74 Following and Opposing Responses to Perturbed Auditory Feedback *Matthias K. Franken[1,2], Frank Eisner[1], James M. McQueen[1,2,3], Peter Hagoort[1,2], Daniel J. Acheson[1,2]; [1]Radboud University Nijmegen, Donders Institute for Brain, Cognition and Behaviour, [2]Max Planck Institute for Psycholinuistics, Nijmegen, [3]Radboud University Nijmegen, Behavioural Science Institute*

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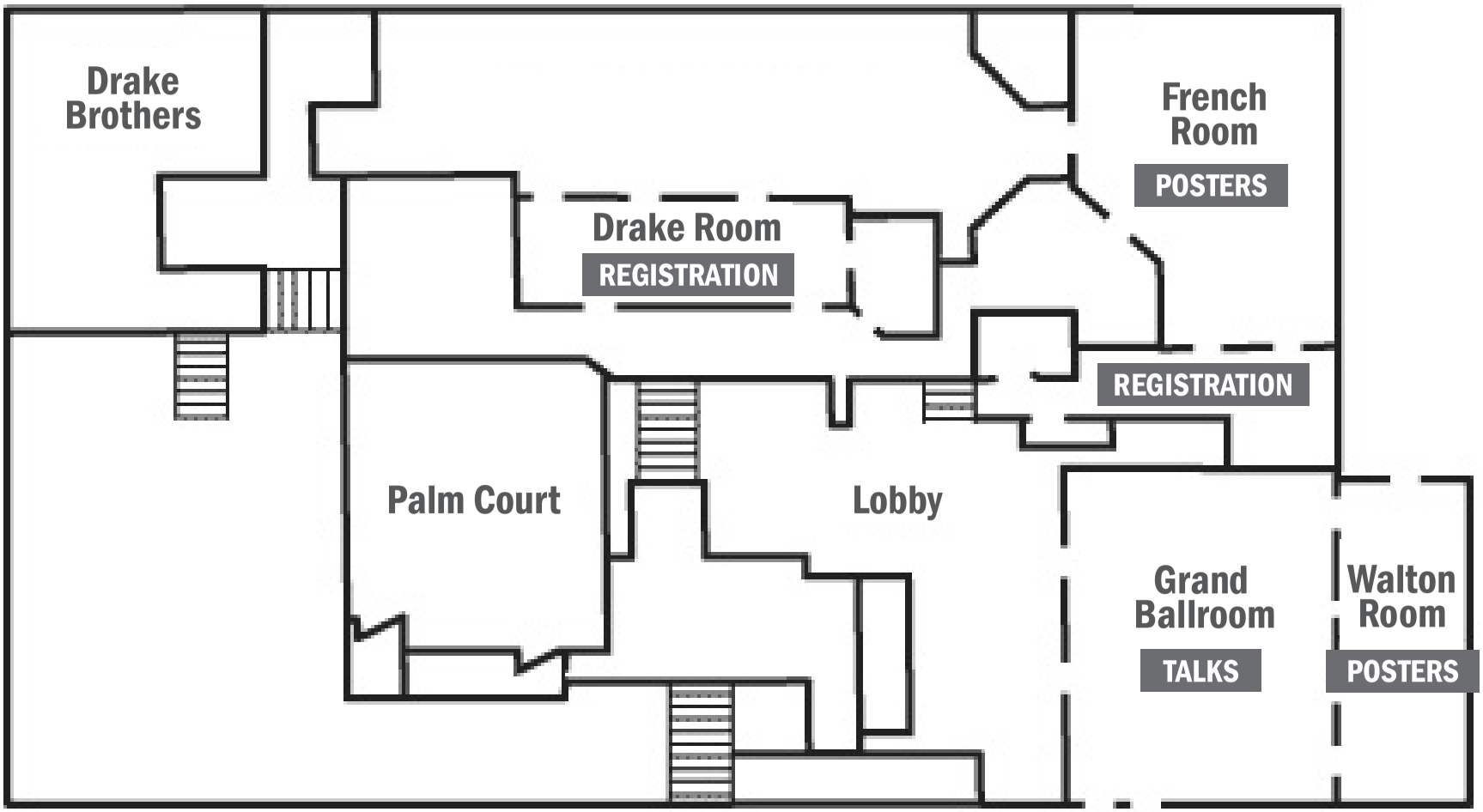

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August 17-20, 2016