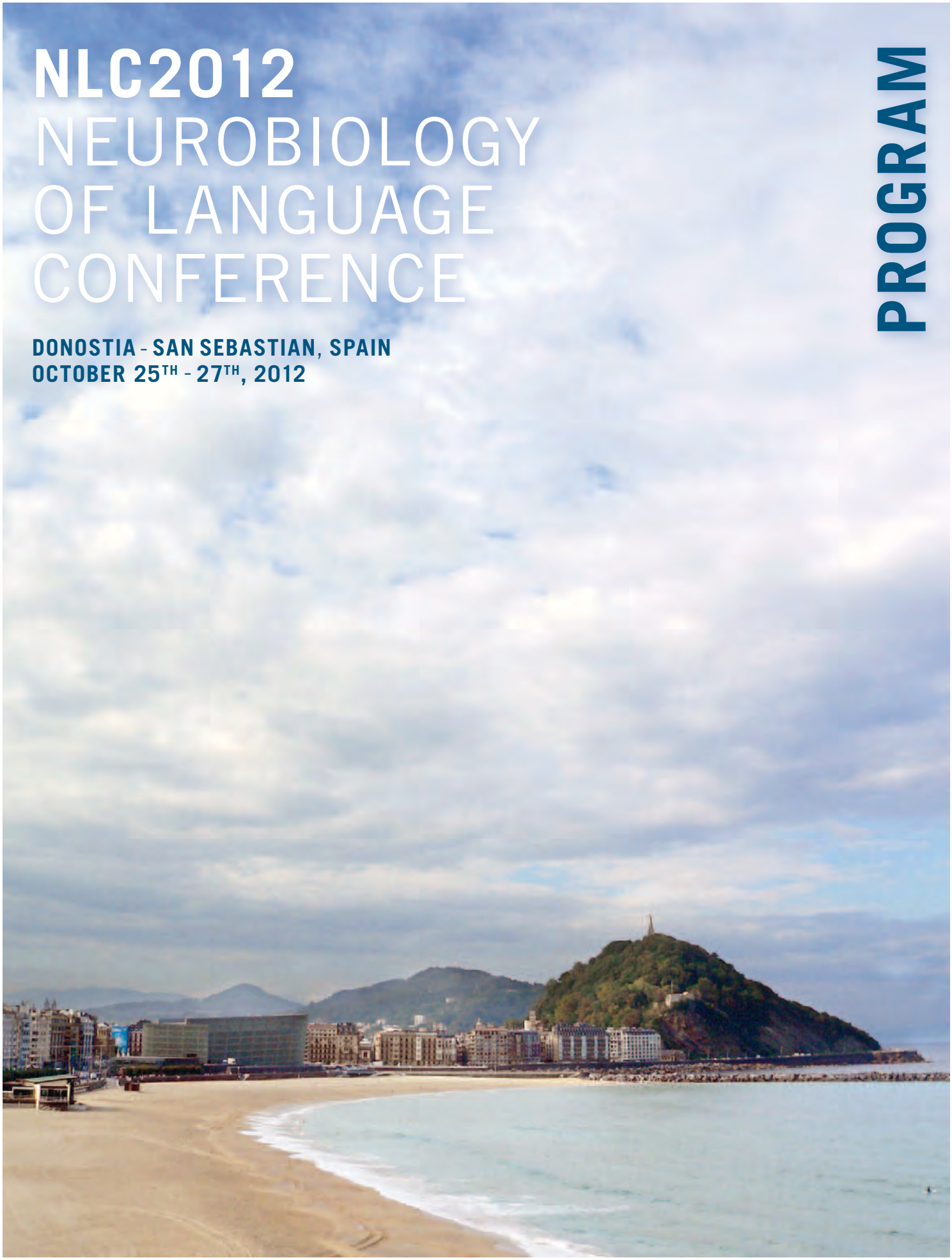
NLC2012
NEUROBIOLOGY OF LANGUAGE CONFERENCE

DONOSTIA - SAN SEBASTIAN, SPAIN
OCTOBER 25TH - 27TH, 2012

PROGRAM



Welcome to NLC 2012, Donostia-San Sebastián

Welcome to the Fourth Annual Neurobiology of Language Conference (NLC) run by the Society for the Neurobiology of Language (SNL). All is working remarkably smoothly thanks to our past president (Greg Hickok), the Board of Directors, the Program Committee, the Nomination Committee, Society Officers, and our meeting planner, Shauney Wilson. A sincere round of thanks to them all! Indeed, another round of thanks to our founders Steve Small and Pascale Tremblay hardly suffices to acknowledge their role in bringing the Society and conference to life.

The 3rd Annual NLC in Annapolis was a great success – scientifically and fiscally – with great talks, posters, and a profit to boot (providing a little cushion for future meetings). There were 476 attendees, about one-third of which were students. Indeed, about 40% of SNL members are students – and that's great because you are the scientists of tomorrow! We want you engaged and present. We thank you and ask for your continued involvement. If there were any complaints, and there weren't very many, it was the lackluster venue. We believe that the natural beauty of San Sebastián will more than make up for that.

The past year has witnessed the launching of our new website (http://www.neurolang.org/) and a monthly newsletter. Read them regularly, and feel free to offer input.

It goes without saying that you are the reason this Society was formed and will flourish: please join the Society, please nominate officers and vote for them, please submit abstracts for posters and talks, and please attend the annual meeting whenever possible. Naturally, we want your feedback and suggestions along with your presence. Word of mouth is the best advertising, and we appreciate your spreading the news. This Society is for you, and it will be what you make of it.

We thank invited speakers – past and present – for coming, sharing, educating and inspiring us. Also, without the generous support from the Basque government and NIDCD there would be less and NLC 2012 would cost more. Finally, we want to extend special recognition to BCBL for their invaluable help in organizing this year's conference. We do not take anything for granted, and we are thankful.

On behalf of the Board and Organizers, welcome to San Sebastián!

Marta Kutas
Chair, Society for the Neurobiology of Language

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Yan Yu
Zude Zhu, Ph.D.

Schedule of Events

All events are held at the Kursaal Congress Center.

Thursday, October 25th

2:00 - 6:30 pm Pre-Registration Check-in and Onsite Registration
Ground Floor Foyer, Kursaal

Friday, October 26th

7:00 am - 6:00 pm Pre-Registration Check-in and Onsite Registration
Ground Floor Foyer, Kursaal

7:45 - 8:15 am Morning Coffee
1st Floor Foyer, Kursaal

8:15 - 8:30 am Opening Remarks:
Marta Kutas, President
Kursaal Auditorium

8:30 - 9:30 am **Keynote Lecture: Barbara L. Finlay**
Beyond columns and areas: developmental gradients and regionalization of the neocortex and their likely consequences for functional organization
Kursaal Auditorium

9:30 - 11:30 am Poster Session A
Ground Floor Foyer and 1st Floor, Kursaal

11:00 - 11:30 am Coffee Break
1st Floor Foyer, Kursaal

11:30 am - 12:50 pm Slide Session A - Speech Perception
Kursaal Auditorium

12:50 - 2:00 pm Buffet Lunch
1st Floor Foyer

2:00 - 3:20 pm Slide Session B - Language Disorders, Laterality, Meaning and Communication
Kursaal Auditorium

3:20 - 5:20 pm Poster Session B
Ground Floor Foyer and 1st Floor, Kursaal

4:50 - 5:20 pm Afternoon Coffee
1st Floor Foyer

5:20 - 6:50 pm Discussion Panel: Nina F. Dronkers vs Julius Fridriksson
What is the role of the insula in speech and language?
Kursaal Auditorium

7:00 - 8:00 pm Welcome Reception

Saturday, October 27th

7:00 am - 6:45 pm Pre-Registration Check-in and Onsite Registration
Ground Floor Foyer, Kursaal

7:45 - 8:15 am Morning Coffee
1st Floor Foyer, Kursaal

8:30 - 9:30 am **Keynote Lecture: Nikos K. Logothetis**
In vivo Connectivity: Paramagnetic Tracers, Electrical Stimulation & Neural-Event Triggered fMRI
Kursaal Auditorium

9:30 – 11:30 am Poster Session C
Ground Floor Foyer and 1st Floor, Kursaal

11:00 - 11:30 am Coffee Break
1st Floor Foyer, Kursaal

11:30 am - 12:50 pm Slide Session C - Reading
Kursaal Auditorium

12:50 - 2:00 pm Buffet Lunch
1st Floor Foyer, Kursaal

2:00 - 3:20 pm Slide Session D - Lexical Semantics
Kursaal Auditorium

3:20 - 5:20 pm Poster Session D
Ground Floor Foyer and 1st Floor, Kursaal

4:50 - 5:20 pm Afternoon Coffee & Light Snack
1st Floor Foyer, Kursaal

5:20 - 5:50pm Business Meeting
Kursaal Auditorium

5:50 - 7:20 pm Discussion Panel:
Matthew Lambon Ralph
vs Jeffrey R. Binder
Role of Angular Gyrus in Semantic Processing
Kursaal Auditorium

Awards

Abstract Merit Awards

The Society for the Neurobiology of Language Graduate Student Abstract Merit Award is given to the two students who submitted the highest ranked abstracts.

The 2012 winners are:

Adeen Flinker, Helen Wills Neuroscience Institute, University of California, Berkeley

Dale Maddox, University of California, Irvine, Department of Cognitive Sciences

The Society for the Neurobiology of Language Post Doctoral Abstract Merit Award is given to the two postdocs who submitted the highest ranked abstracts.

The 2012 winners are:

Karine Marcotte, Toronto Rehabilitation Institute, Toronto, Canada

Corey McMillan, University of Pennsylvania, Department of Neurology

Kursaal Congress Centre

Overlooking the seafront in the heart of the city centre, the Kursaal Centre, designed by architect Rafael Moneo, winner of the 2001 Mies van der Rohe prize for the best building in Europe, is an avant-garde architechtural showpiece.

Travel Awards

This year, the Society for the Neurobiology of Language granted twenty Travel Awards. The awards, funded by the National Institutes of Health (NIH) and the Basque Government, help to cover travel and registration costs for the 2012 Neurobiology of Language Conference (NLC) in Donostia-San Sebastián, Spain.

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

The 2012 Travel Awards were given to:

Wing Yee Chow, University of Maryland

Emily Connally, University of Oxford

Samantha Cooper, University College London

Larissa Cuénoud, University College London

Elisabeth Fonteneau, University of Cambridge

Anna Holt, University of California, Irvine

Robert Hurley, Northwestern University

Saloni Krishnan, University of London

Juliane Mühlhaus, RWTH Aachen University

'Oiwi Parker Jones, University of Oxford

Jack Rogers, University of Oxford

Lesley Sand, University of Maryland

Hernando Santamaría, Universitat Pompeu Fabra

Laura Skipper, Temple University

Kenneth Vaden, Medical University of South Carolina, Charleston

Jane Warren, University College London

Dave Warren, University of Iowa Hospitals and Clinics

Jason Yeatman, Stanford University

Caicai Zhang, The Chinese University of Hong Kong

Camila Zugarramurdi, Universidad de la República, Uruguay

SAVE THE DATE!

NLC 2013

November 7 - 9, 2013
Southern California, USA

Keynote Lectures

BEYOND COLUMNS AND AREAS: DEVELOPMENTAL GRADIENTS AND REGIONALIZATION OF THE NEOCORTEX AND THEIR LIKELY CONSEQUENCES FOR FUNCTIONAL ORGANIZATION

Friday, October 26, 8:30 – 9:30 am, Kursaal Auditorium

Chair: Marta Kutas, University of California, San Diego, USA
Speaker: Barbara L. Finlay, Behavioral and Evolutionary Neuroscience Group, Cornell University, USA

Descriptions of the cerebral cortex may emphasize its modularity by highlighting the unique features of cortical areas, such as primary visual cortex or Broca's area, or may emphasize its uniformity, such as the repeating unit of the cortical column. Implicit in their research designs, current work in functional imaging emphasizes local specialization, while studies of functional connectivity feature the global organization of minimally-specified local units. The cortical sheet, however, has intrinsic organizational features than these two, notably a striking anterior-to–posterior gradient in neuron number per column, neuron size, process elaboration and neuronal density. This gradient interacts with a directionally-biased axonal output arising from primary visual, somatic and motor regions to progressively reduce the number of neurons coding each subsequent representation. This pervasive anterior-to-posterior reduction of neuron number and convergence of axonal projections may correspond directly to the increasing abstraction of information observed individually and collectively across sensory, motor and executive domains along the same anterior-posterior axis.

IN VIVO CONNECTIVITY: PARAMAGNETIC TRACERS, ELECTRICAL STIMULATION & NEURAL-EVENT TRIGGERED FMRI

Saturday, October 27, 8:30 – 9:30 am, Kursaal Auditorium

Chair: Marta Kutas, University of California, San Diego, USA
Speaker: Nikos K. Logothetis, Department Physiology of Cognitive Processes, Max Planck Institute for Biological Cybernetics, Tübingen, Germany, and Imaging Science and Biomedical Engineering, University of Manchester, Manchester, UK

Neuroanatomical cortico-cortical and cortico-subcortical connections have been examined mainly by means of degeneration methods and anterograde and retrograde tracer techniques. Although such studies have demonstrated the value of the information gained from the investigation of the topographic connections between different brain areas, they do require fixed, processedtissue for data analysis and therefore cannot be applied to animals participating in longitudinal studies. Capacities such as plasticity and learning are indeed best studied with non-destructive techniques that can be applied repeatedly and, ideally, combined with neuroimaging or electrophysiology studies. The recent development of MR-visible tracers that can be infused into a specific brain region and are transported anterogradely transsynaptically is one such technique. Simultaneous electrical stimulation (ES) and fMRI (esfMRI) is another. In fact, esfMRI offers a unique opportunity for visualizing the networks underlying electrostimulation-induced behaviors, to map the neuromodulatory systems, or to study the effects of regional synaptic plasticity, e.g. LTP in hippocampus, on cortical connectivity.

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

Friday Discussion Panel

WHAT IS THE ROLE OF THE INSULA IN SPEECH AND LANGUAGE?

Friday, October 26, 5:20 - 6:50 pm, Kursaal Auditorium

Speakers: Nina F. Dronkers, University of California, Davis, USA and Julius Fridriksson, University of South Carolina, USA

Nina F. Dronkers and Julius Fridriksson

The role of the insula in processing speech and language has received relatively limited attention compared to that of other peri-sylvian regions in the left hemisphere. The strategic location of the insula within the peri-sylvian region was noted by Carl Wernicke who suggested that it represented a (functional?) continuum of the anterior and posterior speech areas. More recent studies suggest that the insula is crucial for motor control of speech; much of the supporting evidence comes from associating insula damage with impaired speech production and functional imaging studies showing that overt speech is related to recruitment of the anterior insula. Contrary to this evidence, others have found the insula to play a more limited role in speech production placing greater emphasis on the left inferior frontal gyrus. Several sources of discrepant findings can be identified and our goal is to identify and discuss where we agree and disagree. As importantly, we hope to identify areas where our disagreements can be adjudicated by testable hypotheses regarding the potential role of the insula in speech production.

Pintxos -- A Basque Tradition

Food is an art form in San Sebastian, and a sign of the city's identity.

San Sebastian is world famous as a food tourism destination, since it's collected more Michelin stars per square metre of its territory than anywhere else in the world.

Pintxos, miniature works of culinary art, are traditional small dishes, or tapas found only in the Basque country. Pintxos are typically "finger foods" which can include bite sized snacks of tiger mussels, foie gras with figs and grilled baby squid.

A trip to San Sebastian would not be complete without completing a Pintxo Stroll -- the custom is to have one drink and one pintxo per person in each bar, and then move on to the next, and so on.

Most pintxo sampling is done standing up at the bar, or feel free to join a communial table for sit-down sampling.

Saturday Discussion Panel

ROLE OF ANGULAR GYRUS IN SEMANTIC PROCESSING

Saturday, October 27, 5:50 - 7:20 pm, Kursaal Auditorium

Speakers: Matthew Lambon Ralph , University of Manchester, UK
and Jeffrey R. Binder, Department of Neurology, Medical College of Wisconsin, USA

Matthew A. Lambon Ralph

The role of the angular gyrus (AG) in semantic cognition (semantically-driven expressive and receptive behaviour) is firmly established from a long history of neuropsychological and, more latterly, functional neuroimaging studies. Its exact contribution to semantic processing is unclear, however. Two alternative accounts are found in the classic and contemporary neuroscience literatures. One view is that the transmodal AG's contribution is primarily representational. The alternative account is that the AG forms part of a distributed neural network that supports 'semantic control' – that is, the ability to manipulate underlying semantic knowledge within the current context in order to generate time- and task-appropriate behaviour (both verbal and nonverbal). Both classic and contemporary neuropsychological studies have found that, like patients with ventral prefrontal damage, lesions to posterior temporoparietal regions does not lead to a representational deficit but rather to poor semantic control (in both verbal and nonverbal tasks). Convergent evidence for this hypothesis has been found in contemporary functional neuroimaging and TMS studies – which also provide greater neuroanatomical specificity than that offered by neuropsychological investigations alone. This hypothesis about AG functioning offers the potential of a unified account, not only for semantic cognition, but also the role of the AG in episodic memory, cognitive control and syntactic processing.

Jeffrey R. Binder

An extensive body of evidence from functional imaging studies links the angular gyrus (AG) with semantic processing. This evidence shows stronger responses in both left and right AG with increasing information content, indicating a specific role in semantic representation. Other regions, including neighboring cortex in the intraparietal sulcus and posterior temporal lobe, show the opposite pattern, with stronger responses to semantically impoverished stimuli, which engage additional controlled search and attention mechanisms. Damage to the AG impairs sentence comprehension and retrieval of thematic relations, suggesting a role in representing associative and temporospatial knowledge. This role is consistent with the anatomical location of the AG at the convergence of high-level spatial, visual motion, and kinesthetic representational systems. Variation in performance with varying task procedures in patients with semantic aphasia has been interpreted as indicating a deficit of semantic control, but can be explained by accompanying damage to attentional and phonological systems. The relative lack of item consistency in tests of object knowledge in these patients is expected given that their core deficit does not involve object concepts, but rather relational and event concepts.

General Information

ATM

An ATM (cash machine) is located outside the Kursaal (to the left of the front doors as you leave the building).

Abstracts

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

Audio-Visual

An LCD projector (e.g., for PowerPoint presentations) will be provided in the auditorium; 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.

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.

Day of the Basque Country

October 25 is a holiday in San Sebastian. Banks and most shops will be closed. Restaurants will be open.

Disclaimer

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

Duplication / Recording / Photography

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

Food Service

Complimentary food and beverage service is available on the 1st floor of the Kursaal Auditorium to all registered attendees at the following times:

Friday

Morning Coffee, 7:45 – 8:15 am
Coffee Break, 11:00 – 11:30 am
Buffet Lunch, 12:50 – 2:00 pm
Afternoon Coffee, 4:50 – 5:20 pm
Welcome Reception, 7:00 – 8:00 pm

Saturday

Morning Coffee, 7:45 – 8:15 am
Coffee Break, 11:00 – 11:30 am
Buffet Lunch, 12:50 – 2:00 pm
Afternoon Coffee & Light Snack, 4:50 – 5:20 pm

Future Meetings

NLC 2013 will be held in Southern California, USA, November 7 - 9, 2013.

Getting Around San Sebastian

San Sebastian is a walking city and you can get most places on foot. If you want to take a taxi, taxis can only be taken at taxi stops.

Internet

Wireless Internet is available throughout the Kursaal Congress Center. An access code is available at the Registration desk.

Lost & Found

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

Meeting Rooms

All general sessions (Keynotes, Discussion Panels and Slides) will be held in the Kursaal Auditorium. There are entrances on both levels (ground and 1st floor).

Messages

A bulletin board will be available for messages and job postings near the NLC 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 NLC Registration Desk is located on the ground floor foyer of the Kursaal Auditorium. The Registration Desk hours are:

- Thursday, October 25, 2:00 – 6:30 pm
- Friday, October 26, 7:00 am – 6:00 pm
- Saturday, October 27, 7:00 am – 6:45 pm

Parking

Self-parking is available at the Kursaal Congress Centre, 41.50 € for two days with in-and-out privileges.

Poster Sessions

Posters are located on the ground floor and 1st floor foyers of the Kursaal Congress Centre.

Reception

The Welcome Reception will be held on the 1st floor of the Kursaal, from 7:00 – 8:00 pm and will feature a selection of pinxtos—traditional tapas from the region (Basque country).

Smoking

Smoking is not permitted anywhere inside the Kursaal. There is a smoking area located on the Terrace.

Speakers

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

Transportation - Airport

San Sebastian National Airport (20 km/12 miles)

- Radio Taxi Bidasosa is the only taxi company that has a permanent stop at the San Sebastian Airport. Call 943 63 33 03.
- Buses to and from the airport depart once an hour and the ride takes 30 minutes. The bus stop in downtown San Sebastian is located at the Plaza Gipuzkoa.

Biarritz International Airport: (40 km/25 miles)

- Biarritz Airport Transfers offers service into downtown from 15 euros per person. Call 0033 (0) 7 87 01 04 05 or email biarritzairporttransfers@gmail.com.
- There is a local bus from Biarritz to Bayonne and then a bus from Bayonne to San Sebastian. The Bayonne to San Sebastian route is run by ALSA and takes about 1 h 15. There is also an airport transfer service from Biarritz Airport to San Sebastian Airport.
- There is no direct train to San Sebastian. You must take a French SNCF train to Hendaye and then the Euskotren local train service to San Sebastian. Each ride is approximately 40 minutes, with the total train trip costing less than $15 (about 12 euros).

Bilboa International Airport (90 km/56 miles)

- Buses leave BIO every hour.
- The Basque Country has its own local train network, called Euskotren. It is very inexpensive and there are departures every hour, but it is very slow – taking about 2 h 30 to get from Bilbao to San Sebastian.

Donostia - San Sebastian

The beach resort of San Sebastian is a small city of 183,000 inhabitants, with a remarkably high level of cultural activity for its size.

The beauty of its Bay, known as the Pearl of the Cantabrian Sea; its situation in a natural amphitheatre facing the sea and protected by mountains; its quality of life; and its famous gastronomy have turned it into a world-class tourist destination.

Slide Sessions

Slide Session A

Friday, October 26, 11:30 am – 12:50 pm, Kursaal Auditorium

Speech Perception

Speakers: Adeen Flinker, A. Lisette Isenberg, Emily Myers, Anthony Dick

A1 11:30 am

SIMULTANEOUS REPRESENTATION OF TASK CONTEXT AND STIMULUS IDENTITY IN THE HUMAN AUDITORY CORTEX

Adeen Flinker[1], Nathan E. Crone[3], Robert T. Knight[1,2]; [1]Helen Wills Neuroscience Institute, University of California, Berkeley, Berkeley, CA, [2]Psychology Department, Helen Wills Neuroscience Institute, University of California, Berkeley, Berkeley, CA, [3]Neurology Department, Johns Hopkins University, Baltimore, MD

A2 11:50 am

DORSAL STREAM ORGANIZATION FOR SPATIALLY GUIDED SENSORY-MOTOR INTEGRATION

A. Lisette Isenberg[1], Kourosh Saberi[1], Greg Hickok[1]; [1]UC Irvine

A3 12:10 pm

NEURAL SYSTEMS UNDERLYING LEXICALLY-BIASED PERCEPTUAL LEARNING IN SPEECH

Emily Myers[1,2,3], Laura Mesite[2]; [1]University of Connecticut, [2]Brown University, [3]Haskins Laboratories

A4 12:30 pm

INDIVIDUAL DIFFERENCES IN AUDIOVISUAL SPEECH PERCEPTION: AN EYE-TRACKING AND FMRI STUDY.

Anthony Dick[1], Catherine Bradley[1], Barbara Junco[1], Iris Broce[1], André Maharaj[1]; [1]Florida International University

Slide Session B

Friday, October 26, 2:00 – 3:20 pm, Kursaal Auditorium

Language Disorders, Laterality, Meaning and Communication

Speakers: Zoe Woodhead, Joao Correia, Lise Van der Haegen, Laura Menenti

B1 2:00 pm

WORD-SPECIFIC TRAINING IN PATIENTS WITH ACQUIRED ALEXIA INDUCES INCREASED TOP-DOWN CONNECTIVITY FROM LEFT INFERIOR FRONTAL GYRUS TO LEFT OCCIPITAL CORTEX.

Zoe Woodhead[1], Sundeep Teki[1,2], Cathy Price[1], Richard Wise[3], Alex Leff[4]; [1]Wellcome Trust Centre for Neuroimaging, University College London, [2]Institute of Neuroscience, Newcastle University Medical School, [3]Cognitive, Computational and Clinical Neuroscience Laboratory, Imperial College, London, [4]Institute of Cognitive Neuroscience, University College London

B2 2:20 pm

BRAIN TRANSLATION OF WORDS: AN FMRI DECODING STUDY OF SPEECH RECOGNITION

Joao Correia[1], Milene Bonte[1], Giancarlo Valente[1], Lars Hausfeld[1], Elia Formisano[1], Bernadette Jansma[1]; [1]Department of Cognitive Neuroscience, Faculty of Psychology and Neuroscience, Maastricht University, and Maastricht Brain Imaging Center (M-BIC), Maastricht, The Netherlands

B3 2:40 pm

CENTRAL VISUAL WORD RECOGNITION REQUIRES INTERHEMISPHERIC COMMUNICATION

Lise Van der Haegen[1], Marc Brysbaert[1]; [1]Department of Experimental Psychology, Ghent University, Belgium

B4 3:00 pm

TAKE FIRST RIGHT SECOND LEFT: INTERSUBJECT FMRI CORRELATIONS PREDICT SUCCESS IN SPOKEN COMMUNICATION

Laura Menenti[1,2], Simon Garrod[1]; [1]University of Glasgow, Glasgow, United Kingdom, [2]Max Planck Institute for Psycholinguistics, Nijmegen, Netherlands

Slide Session C

Saturday, October 27, 11:30 am – 12:50 pm, Kursaal Auditorium

Reading

Speakers: Karen Emmorey, Carlos Hamamé, Jason Yeatman, Michele Diaz

C1 11:30 am

MAPPING THE READING CIRCUITRY FOR SKILLED DEAF READERS: AN FMRI STUDY OF SEMANTIC AND PHONOLOGICAL WORD-LEVEL PROCESSING

Karen Emmorey[1], Jill Weisberg[1], Stephen McCullough[1], Jennifer Petrich[1]; [1]San Diego State University

C2 11:50 am

HOW SPECIALIZED IS THE VISUAL WORD FORM AREA? NOVEL EVIDENCE FROM HUMAN INTRACRANIAL EEG

Carlos Hamamé[1,2], Marcin Szwed[3,2], Michael Sharman[4,5], Juan R. Vidal[2], Marcela Perrone-Bertolotti[2], Philippe Kahane[6], Olivier Bertrand[2], Jean-Philippe Lachaux[2]; [1]Laboratoire de Psychologie Cognitive, CNRS, Aix-Marseille Université, Marseille, France, [2]Lyon Neuroscience Research Center, Brain Dynamics and Cognition Team, CNRS (UMR5292), INSERM (U1028), Université Lyon 1, Lyon, France, [3]Department of Psychology, Jagiellonian University, Kraków, Poland, [4]Université Pierre et Marie Curie University, Paris, France, [5]Institut National de la Santé et de la Recherche Médicale, Institut du Cerveau et de la Moelle Épinière, UMRS 975, 75013 Paris, France, [6]Department of Epilepsy, Grenoble University Hospital (Centre Hospital du Grenoble), Grenoble, France

C3 12:10 pm

DUAL PROCESS ACCOUNT OF THE JOINT DEVELOPMENT OF WHITE MATTER AND READING SKILLS

Jason Yeatman[1], Robert Dougherty[1], Michal Ben-Shachar[2], Brian Wandell[1]; [1]Stanford University, [2]Bar-Ilan University

C4 12:30 pm

THE ROLE OF WHITE MATTER INTEGRITY IN EXPLAINING AGE-RELATED DIFFERENCES IN PHONOLOGICAL AND SEMANTIC PROCESSES

Michele Diaz[1], Micah Johnson[1], Deborah Burke[2], David Madden[1]; [1]Duke University, [2]Pomona College

Slide Session D

Saturday, October 27, 2:00 – 3:20 pm, Kursaal Auditorium

Lexical Semantics

Speakers: David Warren, Michael Bonner, Vicky Tzuyin Lai, Clara Martin

D1 2:00 pm

IMPAIRMENTS IN THE ACQUISITION OF NEW OBJECT-NAME ASSOCIATIONS AFTER UNILATERAL TEMPORAL LOBECTOMY DESPITE FAST-MAPPING ENCODING

David Warren[1], Kendra Schmitt[1], Melissa Duff[1]; [1]University of Iowa

D2 2:20 pm

THE MEDIAL TEMPORAL LOBE SUPPORTS VISUAL SEMANTIC MEMORY

Michael Bonner[1], Murray Grossman[1]; [1]Department of Neurology, University of Pennsylvania

D3 2:40 pm

WHEN DOES CONTEXT SHAPE WORD MEANINGS?

Vicky Tzuyin Lai[1], Irina Simanova[2], Daniel Casasanto[3], Peter Hagoort[4]; [1]Max Planck Institute for Psycholinguistics, Nijmegen; Donders Center for Cognitive Neuroimaging; Radboud University Nijmegen, [2]Max Planck Institute for Psycholinguistics, Nijmegen; Donders Center for Cognitive Neuroimaging; Radboud University Nijmegen, [3]The New School for Social Research, [4]Max Planck Institute for Psycholinguistics, Nijmegen; Donders Center for Cognitive Neuroimaging; Radboud University Nijmegen

D4 3:00 pm

FROM LITERAL MEANING TO VERACITY IN TWO HUNDRED MILLISECONDS

Clara Martin[1,2], Xavier Garcia[3], Audrey Breton[4], Guillaume Thierry[5,6], Albert Costa[3,7]; [1]Basque Center on Cognition, Brain and Language, Donostia-San Sebastian, Spain, [2]IKERBASQUE, Basque Foundation for Science, Bilbao, Spain, [3]University Pompeu Fabra, Barcelona, Spain, [4]Institut des Sciences Cognitives, Université de Lyon – CNRS, France, [5]School of Psychology, Bangor University, UK, [6]Economic and Social Research Council Centre for Research on Bilingualism in theory and Practice, Bangor University, Bangor, UK, [7]ICREA, Institució Catalana de Recerca i Estudis Avançats, Barcelona, Spain

Poster Schedule

Poster sessions are scheduled on Friday, October 26 and Saturday, October 27. Poster sessions are 2 hours, and presenting authors are expected to be present the entire time. Posters are located on the Ground Floor Foyer and 1st Floor. 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 "Take-down Complete" time will be discarded. Do not leave personal items in the poster room.

Date & Time	Posters	Topics
Poster Session A	A1 - A12	Auditory Perception, Speech Perception, Audiovisual Integration
Friday, October 26	A13 - A20	Control, Selection, Working Memory
9:30 - 11:30 am	A21 - A26	Discourse, Combinatorial Semantics
	A27 - A32	Gesture, Prosody, Social and Emotional Processes
Setup Begins: 7:00 am	A33 - A40	Language Development, Plasticity, Multilingualism
Teardown Complete: 1:30 pm	A41 - A49	Language Disorders
	A50 - A60	Lexical Semantics
	A61 - A69	Motor Control, Speech Production, Sensorimotor Integration
Poster Session B	B1 - B13	Auditory Perception, Speech Perception, Audiovisual Integration
Friday, October 26	B14 - B19	Discourse, Combinatorial Semantics
3:20 - 5:20 pm	B20 - B25	Gesture, Prosody, Social and Emotional Processes
	B26 - B35	Language Development, Plasticity, Multilingualism
Setup Begins: 1:30 pm	B37 - B45	Language Disorders
Teardown Complete: 8:00 pm	B46 - B55	Lexical Semantics
	B56 - B60	Motor Control, Speech Production, Sensorimotor Integration
	B61 - B69	Orthographic Processing, Writing, Spelling
Poster Session C	C1 - C12	Auditory Perception, Speech Perception, Audiovisual Integration
Saturday, October 27	C13 - C22	Language Development, Plasticity, Multilingualism
9:30 - 11:30 am	C23 - C33	Language Disorders
	C34 - C42	Lexical Semantics
Setup Begins: 7:00 am	C43 - C47	Motor Control, Speech Production, Sensorimotor Integration
Teardown Complete: 1:30 pm	C48 - C54	Orthographic Processing, Writing, Spelling
	C55 - C57	Phonology, Phonological Working Memory
	C58 - C59	Signed Language
	C60 - C69	Syntax, Morphology
Poster Session D	D1 - D9	Auditory Perception, Speech Perception, Audiovisual Integration
Saturday, October 27	D10 - D24	Lexical Semantics
3:20 - 5:20 pm	D25 - D34	Motor Control, Speech Production, Sensorimotor Integration
	D35 - D40	Orthographic Processing, Writing, Spelling
Setup Begins: 1:30 pm	D42 - D50	Syntax, Morphology
Teardown Complete: 7:30 pm	D51 - D60	Discourse, Combinatorial Semantics
	D61 - D68	Methods

Poster Sessions

Poster Session A

Friday, October 26, 9:30 am – 11:30 am,
Ground Floor Foyer and 1st Floor

Auditory Perception, Speech Perception, Audiovisual Integration

A1 EFFECT OF SENTENCE STRUCTURE ON THE NEURAL RESPONSE OF AUDITORY CORTEX *Dale Maddox[1], Jon Venezia[1], Greg Hickok[1]; [1]The University of California-Irvine, Department of Cognitive Sciences, Irvine, CA, USA.*

A2 THE TIMECOURSE OF THE NEURAL RESPONSE TO EFFORTFUL LISTENING IN SPEECH COMPREHENSION *Jonathan Peelle[1], Ediz Sohoglu[2], Matthew Davis[2]; [1]University of Pennsylvania, [2]MRC Cognition and Brain Sciences Unit*

A3 ACOUSTIC AND SEMANTIC PREDICTABILITY MODULATE OMISSION RESPONSE TO MISSING SPEECH SEGMENTS *Mathias Scharinger[1], Alexandra Bendixen[2], Antje Strauss[1], Jonas Obleser[1]; [1]Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany, [2]Institute of Psychology, University of Leipzig, Germany*

A4 RE-VISIONING LANGUAGE AND THE BRAIN: AUDITORY LANGUAGE COMPREHENSION IS DYNAMICALLY SUPPORTED BY VISUAL CORTEX *Samuel Briggs[1], Jeremy Skipper[1]; [1]Hamilton College*

A5 CAN OFFLINE AUDIOVISUAL TRAINING AID PERCEPTUAL ADAPTATION TO ACCENTED SPEECH? *Briony Banks[1], Patti Adank[1], Emma Gowen[1], Kevin Munro[1]; [1]University of Manchester*

A6 THE GENETIC INFLUENCE IN SPEECH PERCEPTION AND LEARNING *Anna Basora[1], Yu Jin[1], Núria Sebastián-Gallés[1]; [1]Universitat Pompeu Fabra*

A7 STRUCTURAL BRAIN DIFFERENCES BETWEEN MONOLINGUALS AND BILINGUALS *Volker Ressel[1], Christophe Pallier[2], Noelia Ventura-Campos[3], Begoña Díaz[4], Abeba Roessler[1], César Ávila[3], Núria Sebastián-Gallés[1]; [1]Universitat Pompeu Fabra, [2]INSERM-CEA, Neurospin Center, [3]Universitat Jaume I, [4]Max Planck Institute for Cognitive and Brain Science*

A8 BILINGUALISM AND NEURAL STABILITY: EXAMINING THE INTERSECTION OF COGNITIVE AND SENSORY PROCESSING *Jennifer Krizman[1,2,3], Erika Skoe[1,3], Viorica Marian[2,3], Nina Kraus[1,3]; [1]1Auditory Neuroscience Laboratory (www.brainvolts.northwestern.edu), [2]Bilingualism and Psycholinguistics Laboratory, [3]Northwestern University, Evanston, Illinois USA*

A9 FUNCTIONAL SEGREGATION IN SECONDARY AUDITORY CORTICES DURING PROCESSING OF MUSIC AND SPEECH: THE EFFECTS OF MUSICIANSHIP *Arafat Angulo[1], William Aubé[2,3], Isabelle Peretz[2,3], Fernando Barrios[1], Jorge Armony[2,4], Luis Concha[1,2]; [1]Universidad Nacional Autónoma de México, Querétaro, México, [2]International Laboratory for Brain, Music and Sound Research (BRAMS), Montréal, Canada, [3]Université de Montréal, Montréal, Canada,, [4]Douglas Institute, McGill University, Montréal, Canada*

A10 TRAINING MODULATES COMPENSATORY FRONTOTEMPORAL RESPONSES TO SIMULATED DEFICITS OF SPEECH PROCESSING *Jane Warren[1], Sonia Brownsett[1], Fatemeh Geranmayeh[1], Richard Wise[1]; [1]Imperial College London*

A11 CORTICAL THICKNESS PREDICTS INDIVIDUAL DIFFERENCES IN LEXICO-PHONOLOGICAL REPRESENTATION IN HIGHLY-SKILLED BILINGUALS *Miguel Burgaleta[1], Cristina Baus[1], Begoña Díaz[2], Nuria Sebastián-Gallés[1]; [1]Center for Brain and Cognition, Universitat Pompeu Fabra, [2]Max Planck Institute for Human Cognitive and Brain Sciences*

A12 PERCEPTION OF DURATION IN NATIVE AND FOREIGN LANGUAGES: EVENT-RELATED BRAIN POTENTIALS TO CONSONANT LENGTH *Carson Dance[1], Sarah Creel[1], Marta Kutas[1]; [1]University of California, San Diego*

Control, Selection, Working Memory

A13 THE USE OF TRANSCRANIAL DIRECT CURRENT STIMULATION TO ENHANCE LEXICAL RETRIEVAL AND WORKING MEMORY IN SCHIZOPHRENIA *Joseph J van Steenburgh[1], Mark Varvaris[1], Tracy D Vannorsdall[1], Barry Gordon[1,2], David J Schretlen[1]; [1]The Johns Hopkins University School of Medicine, [2]The Johns Hopkins University*

A14 CEREBRAL FUNCTIONAL CONNECTIVITY PREDICTS EFFECT OF TRANSCRANIAL DIRECT CURRENT STIMULATION ON WORKING MEMORY IN SCHIZOPHRENIA *David J Schretlen[1], Mark Varvaris[1], Paul G Unschuld[1], Joseph J van Steenburgh[1], Tracy D Vannorsdall[1], Barry Gordon[1,2]; [1]The Johns Hopkins School of Medicine, [2]The Johns Hopkins University*

A15 NEUROANATOMIC CORRELATES OF VERBAL FLUENCY IN SCHIZOPHRENIA *Jacqueline Weaver[1], Mark Varvaris[1], Barry Gordon[1,2], David Schretlen[1]; [1]The Johns Hopkins University School of Medicine, Baltimore, MD, [2]The Johns Hopkins University, Baltimore, MD*

A16 SEMANTIC PROCESSING AND THE EXECUTIVE CONTROL SYSTEM: A STUDY OF SEMANTIC DEFICITS IN STROKE PATIENTS *Tatiana Schnur[1], Ting Feng[2], Randi Martin[1], ZaiZhu Han[2], Yanchao Bi[2]; [1]Rice University, [2]Beijing Normal University*

A17 ROLE OF THE HIPPOCAMPUS IN LANGUAGE PRODUCTION: NOVEL EVIDENCE FROM INTRACRANIAL EEG *Carlos Hamame[1], F.-Xavier Alario[1], Anais Llorens[1,2], Catherine Liegeois-Chauvel[2], Agnes Trebuchon-Da Fonseca[2]; [1]Laboratoire de Psychologie Cognitive, CNRS, Aix-Marseille Université, Marseille, France, [2]INSERM UMR751, Aix-MarseilleUniversité, Marseille, France*

A18 SIMILARITY-BASED COMPETITION IN SENTENCE PRODUCTION AND COMPREHENSION *Gina Humphreys[1], Silvia Gennari[1]; [1]University of York*

A19 SOCIAL INTERFERENCE IN BILINGUAL PROCESSING: AN FMRI STUDY *Yapeng Wang[1], Qi Dong[1], Patricia Kuhl[2]; [1]National Key Laboratory of Cognitive Neuroscience and Learning, Beijing Normal University, PR China, [2]Institute for Learning and Brain Sciences, University of Washington, Seattle, USA*

A20 CORTICAL MECHANISMS UNDERLYING THE PROCESSING OF JAPANESE HIERARCHICALLY EMBEDDED SENTENCE STRUCTURE *Toshiki Iwabuchi[1,2], Toshio Inui[1], Kenji Ogawa[3]; [1]Kyoto University, Japan, [2]Japan Society for the Promotion of Science, Japan, [3]ATR Cognitive Mechanisms Laboratories, Japan*

Discourse, Combinatorial Semantics

A21 UNIVERSAL BRAIN NETWORK IN READING AND LISTENING TO CONTINUOUS NARRATIVES ACROSS CHINESE AND ENGLISH *Jianfeng Yang[1], Xiaojuan Wang[2], Einar Mencl[3], Jie Yang[4], Hua Shu[2], Jason Zevin[3,5]; [1]Institute of Psychology, Chinese Academy of Sciences, Beijing, China, [2]State Key Laboratory of Cognitive Neuroscience and Learning, Beijing Normal University, Beijing, China, [3]Haskins Laboratories, New Haven, CT, United States, [4]Department of Neurology, U.C. Irvine, CA, United States, [5]Sackler Institute for Developmental Psychobiology, New York, NY, United States*

A22 SINGULAR AND PLURAL REFERENCES TO CONJOINED AND NON-CONJOINED ANTECEDENTS: AN FMRI STUDY *Tim W Boiteau[1], Amit Almor[1]; [1]University of South Carolina*

A23 INDIVIDUAL DIFFERENCES IN VERBAL WORKING MEMORY DETERMINE N400 AND P600 EFFECTS TO SEMANTIC ANOMALIES *Albert Kim[1], Leif Oines[1]; [1]University of Colorado at Boulder*

A24 REFERENTIAL PROCESSING PLACES HIGH DEMANDS ON HIPPOCAMPAL DECLARATIVE MEMORY *Melissa Duff[1], Jake Kurczek; [1]University of Iowa*

A25 TWO ROUTES TO SILENT MEANING DISTINGUISHED IN THE BRAIN *E. Matthew Husband[1], Fernanda Ferreira[1]; [1]University of South Carolina*

A26 WHEN HAVING MORE TIME DOESN'T HELP: PREDICTIONS ARE NECESSARY FOR "SMART" N400S *Wing Yee Chow[1], Colin Phillips[1], Suiping Wang[2]; [1]University of Maryland College Park, [2]South China Normal University*

Gesture, Prosody, Social and Emotional Processes

A27 INTEGRATING PITCH ACCENT AND BEAT GESTURE DURING SPEECH COMPREHENSION *Lin Wang[1], Mingyuan Chu[2]; [1]Key Laboratory of Behavioral Science, Institute of Psychology, Chinese Academy of Sciences, [2]Max Planck Institute for Psycholinguistics*

A28 THE EFFECTS OF SOCIAL HIERARCHIES ON NEURAL MECHANISMS OF REPETITION SUPPRESSION *Alba Ayneto[1], Hernando Santamaria[1], Núria Sebastián-Gallés[1]; [1]Universitat Pompeu Fabra*

A29 "YOU SAY SO, WHO KNOWS IF IT IS TRUE" EFFECTS OF SPEAKER'S SOCIAL HIERARCHY ON THE SENTENCE COMPREHENSION *Hernando Santamaría García[1], Alba Ayneto[1], Nuria Sebastian[1]; [1]Brain and Cognition Center Pompeu Fabra University Barcelona Spain*

A30 EYE'M TALKING TO YOU: SPEAKERS' GAZE DIRECTION MODULATES THE INTEGRATION OF SPEECH AND ICONIC GESTURES IN THE RIGHT MTG *Idil Kokal[1], Judith Holler[2], Asli Ozyurek[3], Spencer Kelly[4], Ivan Toni[1], Peter Hagoort[1]; [1]Donders Institute for Brain, Cognition and Behaviour, Centre for Cognitive Neuroimaging, Radboud University Nijmegen, Nijmegen, the Netherlands, [2]MPI Nijmegen, [3]Radboud University Nijmegen, [4]Colgate University USA*

A31 NEGATIVE "GOSSIP" STIMULI MODULATE LEFT-LATERALIZED P1 COMPONENT WHILE VIEWING NEUTRAL FACES. *Ethan Weed[1], Micah Allen[1], Daniel Gramm[1]; [1]Aarhus University*

A32 INDIVIDUAL DIFFERENCES IN FRONTAL AND TEMPORAL CONTRIBUTIONS PREDICT CHILDREN'S COMPREHENSION OF ICONIC CO-SPEECH GESTURE *Anna E. Holt[1], Anjali R. Beharelle[2,3], Susan Goldin-Meadow[4], Steven L. Small[1,4]; [1]University of California Irvine, [2]Rotman Research Institute, Baycrest Centre, Toronto, [3]University of Toronto, [4]The University of Chicago*

Language Development, Plasticity, Multilingualism

A33 EARLY MATERNAL USE OF DECONTEXTUALIZED LANGUAGE PREDICTS INDIVIDUAL DIFFERENCES IN CHILDREN'S WHITE MATTER AT AGE 7-9

Anna E. Holt[1], Jeffrey D. Riley[1], Özlem E. Demir[2], Susan Goldin-Meadow[2], Steven L. Small[1,2]; [1]University of California, Irvine, [2]University of Chicago

A34 FUNCTIONAL REORGANISATION IN THE DYSLEXIC BRAIN AFTER DEFICIT-SPECIFIC TRAINING IN COGNITIVE SUBTYPES OF DYSLEXIA

Stefan Heim[1,2,3], Muna van Ermingen-Marbach[1], Moti Brinkhaus[3], Julia Reimers[3], Julia Pape-Neumann[3], Marion Grande[3]; [1]Section Structural-functional Brain Mapping, Department of Psychiatry, Psychotherapy and Psychosomatics, Medical School, RWTH Aachen University, [2]Institute for Neuroscience and Medicine (INM-1), Research Centre Jülich, [3]Section Clinical and Cognitive Neurosciences, Department of Neurology, Medical School, RWTH Aachen University

A35 THE ROLE OF MEDIAL-FRONTAL CORTEX IN LANGUAGE ACQUISITION

Olave Krigolson[1], Cameron Hassall[1], Paul Gosset[2], Todd Handy[2]; [1]Department of Psychology and Neuroscience, Dalhousie University, [2]Department of Psychology, University of British Columbia

A36 GRAY MATTER DENSITY DIFFERENCES IN THE LEFT PUTAMEN CORRELATE WITH AGE OF SECOND LANGUAGE ACQUISITION: A VOXEL-BASED MORPHOMETRY STUDY

Denise Klein[1,2], Jonathan Berken[1,2], Jen-Kai Chen[1], Vincent L. Gracco[2], Shari Baum[2], Kelvin Mok[1]; [1]Cognitive Neuroscience Unit, Montréal Neurological Institute, McGill University, [2]Centre for Research on Brain, Language, and Music, McGill University

A37 MOTOR ACTIVITY IN THE HUMAN BRAIN WHILE READING ACTION LANGUAGE. EEG DESYNCHRONIZATION IN THE μ RHYTHMS

Ivan Moreno[1], Manuel de Vega[1], Inmaculada León[1]; [1]La Laguna University, Tenerife, Spain

A38 EXPLORING FIGURATIVE LANGUAGE PROCESSING IN MANDARIN-ENGLISH BILINGUALS: AN FMRI STUDY

Yu-Chen Chang[1], Fan-pei Yang[1]; [1]National Tsing Hua University

A39 PUTTING THE CRITICAL PERIOD HYPOTHESIS TO THE TEST: A NEW PARADIGM ALLOWS A CRITICAL VIEW ON THE ELAN IN L1 AND L2 SPEAKERS

Stefanie Nickels[1], Karsten Steinhauer[1]; [1]McGill University

A40 BRAIN RESPONSES TO MORPHOSYNTAX AT EARLY STAGES OF SECOND LANGUAGE DEVELOPMENT

Robert Fiorentino[1], Alison Gabriele[1], Jose Aleman Banon[1], Kristi Bond[1,2], Maria Martinez-Garcia[1]; [1]University of Kansas, [2]Harding University

Language Disorders

A41 STRUCTURAL NEURAL BASES OF PERFORMANCE IN CHRONIC STROKE APHASIA AS REVEALED BY PRINCIPAL COMPONENTS ANALYSIS AND VOXEL-BASED CORRELATIONS

Rebecca A Butler[1], Matthew A Lambon Ralph[1], Geoffrey J M Parker[2], Anna M Woollams[1]; [1]Neuroscience and Research Unit, University of Manchester, UK, [2]Biomedical Imaging Institute, University of Manchester, UK

A42 DISRUPTED WHITE MATTER CONNECTIVITY IN LANGUAGE AND MOTOR TRACTS IN DEVELOPMENTAL STUTTERING

Emily Connally[1], David Ward[2], Peter Howell[3], Kate Watkins[1]; [1]University of Oxford, [2]University of Reading, [3]University College London

A43 THE EFFECT OF A MUTATION IN FOXP2 ON MOTOR AND SPEECH AND LANGUAGE TRACTS IN THE HUMAN BRAIN

Kate Watkins[1], Faraneh Vargha-Khadem[2]; [1]University of Oxford, [2]University College London

A44 WHITE MATTER DIFFERENCES IN DORSAL AND VENTRAL LANGUAGE PATHWAYS OF ADULTS WHO STUTTER

Michal Ben-Shachar[1], Vered Kronfeld-Duenias[1], Ruth Ezrati[2], Ofer Amir[2]; [1]Bar-Ilan University, [2]Tel-Aviv University

A45 ACUTE APHASIA SYNDROMES IN THE CONTEXT OF THE DUAL PATHWAY MODEL

Dorothee Kuemmerer[1], Tobias Bormann[1], Volkmar Glauche[1], Irina Mader[2], Michel Rijntjes[1], Dorothee Saur[3], Bjoern Schelter[1], Cornelius Weiller[1]; [1]Neurology, Freiburg, Germany, [2]Neuroradiology, Freiburg, Germany, [3]Neurology, Leipzig, Germany

A46 MEASURING STRUCTURAL CONNECTIVITY TO PREDICT LANGUAGE IMPAIRMENT IN APHASIA

Jessica Richardson[1], Astrid Fridriksson[1], Della Franklin[1], Emily Graczyk[1], Julius Fridriksson[1]; [1]University of South Carolina, Columbia, SC

A47 OVERCOMING NON-FLUENT APHASIA: DIFFERENTIAL CONTRIBUTION OF CORTEX AND CEREBELLUM

Olga Dragoy[1,2,3], Svetlana Malyutina[4], Maria Ivanova[1,3,5], Elena Kozintseva[3,5], Daniil Sevan[5], Svetlana Kuptsova[3,5], Aleksey Petrushevsky[5], Oksana Fedina[5], Evgeny Gutyrchik[6]; [1]Moscow Research Institute of Psychiatry, Russia, [2]National Research Center 'Kurchatov Institute', [3]National Research University Higher School of Economics, Russia, [4]University of South Carolina, USA, [5]Center for Speech Pathology and Neurorehabilitation, Russia, [6]Ludwig Maximilian University of Munich, Germany

A48 IMPLICIT AND EXPLICIT LEARNING IN APHASIA

Julia Schuchard[1], Cynthia K. Thompson[1]; [1]Northwestern University

A49 CONNECTED SPEECH PRODUCTION IN PRIMARY PROGRESSIVE APHASIAS *Sharon Ash[1], Emily Evans[1], Jessica O'Shea[1], John Powers[1], Ashley Boller[1], Lisa Burkholder[1], Emily Camp[1], Danielle Weinberg[1], Jenna Haley[1], Jessica Kitain[1], Corey McMillan[1], Murray Grossman[1]; [1]Perelman School of Medicine of the University of Pennsylvania*

Lexical Semantics

A50 WORD–PSEUDO-WORD CONFUSION IN NOISE REVEALS EARLY RECOGNITION BUT LATER DENIAL *Antje Strauss[1], Jonas Obleser[1]; [1]Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany*

A51 MAPPING THE SIMILARITY SPACE OF MEANING IN SENSORIMOTOR CORTEX *Eiling Yee[1], Elizabeth Musz[2], Sharon L. Thompson-Schill[2]; [1]Basque Center on Cognition, Brain and Language, [2]University of Pennsylvania*

A52 LINKING LANGUAGE TO MOTOR STRUCTURES THROUGH WORDS: THE PRIVILEGED STATUS OF VERBAL STIMULI *Raphaël Fargier[1], Mathilde Ménoret[1], Anne Reboul[1], Yves Paulignan[1], Tatjana A. Nazir[1]; [1]L2C2 CNRS-Université Claude Bernard Lyon1, Lyon, France*

A53 WHEN THE SUN MEETS THE RAIN: NEURAL CORRELATES OF SEMANTIC PRIMING ARE INFLUENCED BY EMOTIONAL ASSOCIATIONS *Katharina Sass[1,2,4], Klaus Mathiak[1,2,4], Siegfried Gauggel[1], Tilo Kircher[3], Ute Habel[1,4]; [1]RWTH Aachen University, Germany, [2]Research Centre Jülich, Germany, [3]Philipps-University Marburg, Germany, [4]JARA - Translational Brain Medicine*

A54 HOW DOES SOCIAL ABILITY AFFECT SEMANTIC PROCESSING IN YOUTHS WITH AUTISM? *Yu-Hsuan Sun[1], Susan Shur-Fen Gau[1,2], Tai-Li Chou[1]; [1]National Taiwan University, [2]National Taiwan University Hospital and College of Medicine*

A55 FUNCTIONAL CONNECTIVITY OF THE LEFT INFERIOR FRONTAL GYRUS WHILE READING ABSTRACT AND CONCRETE WORDS *Ingrid Olson[1], Laura Skipper[1]; [1]Temple University, Philadelphia, PA, USA*

A56 DEVELOPMENTAL CHANGES IN EFFECTIVE CONNECTIVITY DURING SEMANTIC JUDGMENTS TO CHINESE CHARACTERS *Li-Ying Fan[1], Tai-Li Chou[1,2,3]; [1]Department of Psychology, National Taiwan University, Taiwan, [2]Neurobiology and Cognitive Science Center, National Taiwan University, Taiwan, [3]Graduate Institute of Brain and Mind Sciences, National Taiwan University, Taiwan*

A57 HIERARCHICAL ORGANIZATION OF ABSTRACT NOUNS: IMPLICATIONS FOR NEUROLINGUISTIC THEORY *Joshua Troche[1], Alison Paris[1], Sebastian Crutch[2], Jamie Reilly[1]; [1]University of Florida, [2]University College London*

A58 NEURAL AND BEHAVIOURAL CONSOLIDATION OF SPOKEN WORDS AND MEANINGS IN L1 AND L2 *Viktoria Havas[1,2], Joanne Taylor[3], Lucía Vaquero[1], Ruth de Diego-Balaguer[1,2,4,5,6], Antoni Rodríguez-Fornells[1,2,4]; [1]Bellvitge Biomedical Research Institute, [2]University of Barcelona, [3]MRC Cognition and Brain Sciences Unit, [4]Institució Catalana de Recerca i Estudis Avançats, [5]Ecole Normale Superieure, [6]Institut National de la Santé et de la Recherche Mé dicale*

A59 ROLE OF THE LEFT ANGULAR GYRUS IN SEMANTIC PROCESSING DURING VISUAL WORD RECOGNITION *Magdalena W. Sliwinska[1], Alyson James[1], Joseph T. Devlin[1]; [1]Cognitive, Perceptual & Brain Sciences, UCL, London, UK*

A60 INDUCED MOOD MODULATES THE ERP N400 COMPONENT IN VISUAL WORD RECOGNITION *Maartje van der Meij[1], Pedro Javier López Pérez[1], Steffen Wiegert[1], Horacio A. Barber[1]; [1]University of La Laguna*

Motor Control, Speech Production, Sensorimotor Integration

A61 THE NEURAL REPRESENTATION OF A SPEECH ACTION REPOSITORY *Cornelia Eckers[1], Bernd J. Kröger[1,2], Stefan Heim[3,4,5,6]; [1]Department of Phoniatrics, Pedaudiology, and Communication Disorders, RWTH Aachen University, Aachen, Germany, [2]School of Computer Science and Technology, Tianjin University, Tianjin, P.R.China, [3]Structural-Functional Brain Mapping at the Department of Psychiatry, Psychotherapy, and Psychosomatics, Medical School, RWTH Aachen University, Aachen, Germany, [4]Clinical and Cognitive Neurosciences at the Department of Neurology, Medical School, RWTH Aachen University, Aachen, Germany, [5]Research Centre Jülich, Institute of Neuroscience and Medicine (INM-1), Jülich, Germany, [6]Jülich-Aachen Research Alliance – Translational Brain Medicine,Jülich and Aachen, Germany*

A62 REPETITION SUPPRESSION DURING PERCEPTION AND PRODUCTION OF SINGLE-SYLLABLES: AN FMRI ADAPTATION PARADIGM *Jack Rogers[1], Riikka Mottonen[1], Rowan Boyles[1], Kate E Watkins[1]; [1]University of Oxford, UK*

A63 IMITATIVE LEARNING IN SPEECH COMPREHENSION: AN FMRI STUDY *Patti Adank[1], Shirley-Ann Rueschemeyer[2], Harold Bekkering[3]; [1]School of Psychological Sciences, University of Manchester, United Kingdom, [2]Department of Psychology, University of York, United Kingdom, [3]Donders Institute for Brain, Cognition and Behaviour, University of Nijmegen, The Netherlands*

A64 INTRA- AND INTERHEMISPHERIC FUNCTIONAL COUPLING FOR INNER AND OVERT SPEECH *Christian Keller[1], Christian Kell[1]; [1]Department of Neurology and Brain Imaging Center Goethe University Frankfurt, Germany*

A65 NEURAL PREDICTIONS OF AUDITORY VOCAL FEEDBACK ARE TASK-SPECIFIC *Caroline Niziolek[1], Srikantan S. Nagarajan[1], John F. Houde[1]; [1]University of California, San Francisco*

A66 ARE NEUROANATOMICAL CHANGES DRIVING NEUROPHYSIOLOGICAL CHANGES IN THE SPEECH SENSORIMOTOR NEURAL SYSTEM IN AGING? AN FMRI STUDY *Pascale Tremblay[1,2], Anthony S. Dick[3], Steven L. Small[4]; [1]Universite Laval, [2]Centre de Recherche de l'Institut Universitaire en Santé Mentale de Québec, [3]Florida International University, [4]University of California, Irvine*

A67 CORTICAL NETWORKS INVOLVED IN SPEECH RECOVERY AFTER INTRA-ORAL SURGERY: AN FMRI STUDY *Audrey Acher[1], Marc Sato[1], Laurent Lamalle[2], Coriandre Vilain[1], Arnaud Attye[2], Alexandre Krainik[2], Georges Bettega[3], Christian Adrien Righini[4], Brice Carlot[3], Muriel Brix[3], Pascal Perrier[1]; [1]Gipsa-Lab, Département Parole & Cognition, UMR 5216 CNRS/Grenoble Universités, [2]SFR1 RMN Biomédicale et Neurosciences – Unité IRM Recherche 3T, CHU de Grenoble, [3]Service de chirurgie plastique et maxillo-faciale – CHU de Grenoble, [4]Clinique ORL, Pôle Tête et cou et Chirurgie Réparatrice – CHU de Grenoble*

A68 AN MEG STUDY OF MULTI-WORD SEQUENCE FREQUENCY EFFECTS ON SPEECH PRODUCTION. *Antoine Tremblay[1], Anne Johnson[1], Timothy Bardouille[2], Aaron J. Newman[1]; [1]Dalhousie University, [2]NRC Biodiagnostics (Atlantic)*

A69 NEUROPHYSIOLOGY OF SPEECH ACT PROCESSING: AN MEG STUDY. *Natalia Egorova[1,2], Friedemann Pulvermuller[3], Yury Shtyrov[1]; [1]MRC Cognition and Brain Sciences Unit, Cambridge, [2]University of Cambridge, [3]Free University of Berlin*

Poster Session B

Friday, October 26, 3:20 pm – 5:20 pm,
Ground Floor Foyer and 1st Floor

Auditory Perception, Speech Perception, Audiovisual Integration

B1 RELATING SPECTRAL AND TEMPORAL TASK PERFORMANCE TO DEGRADED SENTENCE COMPREHENSION IN CHRONIC STROKE *Paul Fillmore[1], Sigridur Magnusdottir[2], Helga Thors[1,2], Taylor Hanayik[1], Kimberly Smith[1], Daniel Fogerty[1], Julius Fridriksson[1]; [1]University of South Carolina, Columbia, SC., [2]University of Iceland, Reykjavik, Iceland.*

B2 AUDITORY PROCESSING CHANGES FOLLOWING NEUROPLASTICITY-BASED COMPUTERIZED TRAINING IN A PERSON WITH APHASIA: A PILOT STUDY *Brea Chouinard[1], Crystal Zhou[1], Yvonne Y. Chen[1], Claire Rollans[2], Esther Kim[1], Jacqueline Cummine[1]; [1]University of Alberta, [2]McGill University*

B3 FUNCTIONAL CORRELATES OF THE SPEECH IN NOISE COMPREHENSION DEFICIT IN DYSLEXIA *Michel Hoen[1], Marjorie Dole[1], Fanny Meunier[1]; [1]Centre de Recherche en Neurosciences de Lyon Equipe Dynamique Cérébrale et Cognition INSERM U1028 - CNRS UMR5292 - Lyon France*

B4 RESPONSES TO AUDITORY, VISUAL, AND AUDIOVISUAL SPEECH AND NONSPEECH RECORDED FROM AUDITORY CORTEX *Ariane E. Rhone[1], Hiroyuki Oya[1], Bob McMurray[1], Richard A. Reale[1], Kirill V. Nourski[1], Hiroto Kawasaki[1], Matthew A Howard, III[1]; [1]University of Iowa*

B5 NEURAL CORRELATES OF CONTEXT-TUNING MECHANISM FOR NORMALIZING TALKER VARIABILITY: AN EVENT-RELATED POTENTIAL (ERP) STUDY OF CANTONESE LEVEL TONES *Caicai Zhang[1], Gang Peng[1], William Shi-Yuan Wang[1]; [1]Language Engineering Laboratory, The Chinese University of Hong Kong*

B6 INDEPENDENT PROCESSING OF STRESS AND PHONEMES IN READING AND NON-READING CHILDREN *Ulrike Schild[1], Brigitte Röder[1], Claudia K. Friedrich[1]; [1]University of Hamburg*

B8 ONLINE LEXICAL INFLUENCES DRIVE PHONOTACTIC EFFECTS *David Gow[1,2,3]; [1]Massachusetts General Hospital, [2]Salem State University, [3]Athinoula A. Martinos Center for Biomedical Imaging*

B9 DOMAIN-DEPENDENT AND DOMAIN-INDEPENDENT SENSITIVITY TO STATISTICAL STRUCTURE FOR AUDITORY INPUTS IN LATERAL TEMPORAL CORTEX *Uri Hasson[1], Pascale Tremblay[2]; [1]University of Trento, [2]Université Laval*

B10 ELECTRO-CORTICOGRAPHIC SIGNATURES OF AUDITORY NAMING *Kiefer Forseth[1,2], Chris Conner[1], Nitin Tandon[1]; [1]UT Houston Health Science Center, [2]Rice University*

B11 NEURAL RESPONSE TO LANGUAGE AND MUSIC IS LARGELY NON-OVERLAPPING *John Payne[1], Corianne Rogalsky[1], Greg Hickok[1]; [1]University of California, Irvine*

B12 SPECTRO-TEMPORAL CORRELATES OF RAPID LEXICAL ACCESS DURING AUDITORY LEXICAL DECISION *Jonathan Brennan[1], David Embick[2], Timothy P. L. Roberts[1]; [1]The Children's Hospital of Philadelphia, [2]The University of Pennsylvania*

B13 THE CRITICAL STATUS OF WORD-INITIAL SYLLABLE IN THE ON-LINE PROCESSING OF SPEECH: A MMN STUDY *Stéphane Pota[1,2,3], Elsa Spinelli[1,2,4], Léo Varnet[3], Michel Hoen[3], Fanny Meunier[3]; [1]Université Pierre-Mendès-France, [2]Laboratoire de Psychologie et NeuroCognition, CNRS, [3]Lyon Neurosciences Research Center, CNRS, INSERM, [4]Institut Universitaire de France*

Discourse, Combinatorial Semantics

B14 IT'S MY TURN: AN FMRI-STUDY ON TURN-TAKING DURING DYADIC ONLINE COMMUNICATION *Juliane Klann[1], Walter Huber[1]; [1]Clinical and Cognitive Neuroscience, Clinic of Neurology, University Hospital, RWTH Aachen University, Germany*

B15 INDIVIDUAL DIFFERENCES IN LOGICAL ABILITY PREDICT ERP RESPONSES TO UNDERINFORMATIVE SENTENCES *Stephen Politzer-Ahles[1], Xiaoming Jiang[2], Robert Fiorentino[1], Xiaolin Zhou[2]; [1]University of Kansas, [2]Peking University*

B16 A NEURAL SIMILARITY SPACE BASED ON BELIEFS *Anna Leshinskaya[1], Juan Manuel Contreras[1], Alfonso Caramazza[1,2], Jason P. Mitchell[1]; [1]Harvard University, [2]University of Trento*

B17 NEURAL DIFFERENCES FOR HAPPY AND SAD MOODS IN PROCESSING CONSISTENCY IN DISCOURSE COMPREHENSION *Giovanna Egidi[1], Alfonso Caramazza[1,2]; [1]Center for Mind/Brain Sciences (CIMeC) - University of Trento, [2]Cognitive Neuropsychology Laboratory - Harvard University*

B18 FEEL BETWEEN THE LINES: IMPLIED EMOTION FROM COMBINATORIAL SEMANTICS *Vicky Tzuyin Lai[1], Roel Willems[2], Peter Hagoort[3]; [1]Max Planck Institute for Psycholinguistics, Nijmegen, [2]Donders Institute for Brain, Cognition and Behaviour, [3]Max Planck Institute for Psycholinguistics, Nijmegen; Donders Institute for Brain, Cognition and Behaviour*

B19 WHAT ARE YOU DOING WHILE I AM SPEAKING TO YOU? THE ALLOCATION OF COGNITIVE RESOURCES DURING IRONY PROCESSING *Nicola Spotorno[1], Anne Cheylus[1], Jean-Baptiste Van Der Henst[1], Ira Noveck[1,2]; [1]Laboratory l2c2, cnrs, Université Lyon 1, France, [2]Centre de Recherche Français à Jérusalem (crfj), Israel*

Gesture, Prosody, Social and Emotional Processes

B20 SOCIAL COORDINATION LIMITATIONS IMPACT DISCOURSE *Corey McMillan[1], Katya Rascovsky[1], Robin Clark[2], Murray Grossman[1]; [1]University of Pennsylvania, Department of Neurology, [2]University of Pennsylvania, Department of Linguistics*

B21 THE ROLE OF THE RIGHT DORSAL PATHWAY IN PROSODY AND MELODY PROCESSING *Daniela Sammler[1,2], Katrin Cunitz[1], Sarah M. E. Gierhan[1,3], Alfred Anwander[1], Jens Adermann[4], Jürgen Meixensberger[4], Angela D. Friederici[1,3]; [1]Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany, [2]Institute of Neuroscience and Psychology, University of Glasgow, Glasgow, UK, [3]Berlin School of Mind and Brain, Humboldt University, Berlin, Germany, [4]University Hospital Leipzig, Department of Neurosurgery, Leipzig, Germany*

B22 IS LANGUAGE IMPORTANT FOR PERCEIVING EMOTIONS? : EMOTIONAL DEFICITS IN SCHIZOPHRENIA *Chun-Wei Hsu[1], Tai-Li Chou[1,2,3]; [1]Department of Psychology, National Taiwan University, Taiwan, [2]Neurobiology and Cognitive Science Center, National Taiwan University, Taiwan, [3]Graduate Institute of Brain and Mind Sciences, National Taiwan University, Taiwan*

B23 REPETITIVE TRANSCRANIAL MAGNETIC STIMULATION TO RIGHT ANTERIOR TEMPORAL LOBE IMPROVES SEMANTIC PROCESSING *Laura Skipper[1], Lauren Richmond[1], Roy Hamilton[2], Ingrid Olson[1]; [1]Temple University, Philadelphia, PA, USA, [2]University of Pennsylvania, Philadelphia, PA, USA*

B24 GESTURE RELATED ACTIVITY PRECEDES THE UTTERANCE OF WORDS IN A COVERT FASHION: ELECTROPHYSIOLOGICAL EVIDENCE FROM THE LATERALIZED READINESS POTENTIAL. *Thomas Gunter[1], J.E. Douglas Weinbrenner[1], Mareen Berndt[1]; [1]Max-Planck Institute for Human Cognitive and Brain Sciences*

B25 USING RHYTHM IN L2 TO FACILITATE SYNTACTIC AMBIGUITY RESOLUTION: WHEN IS IT TOO LATE TO LEARN IT? *Maria Paula Roncaglia-Denissen[1], Maren Schmidt-Kassow[2], Angela Heine[3], Sonja A. Kotz[1]; [1]Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany, [2]Goethe University, Frankfurt/Main, Germany, [3]Freie Universität Berlin, Germany*

Language Development, Plasticity, Multilingualism

B26 NATIVE AND NON-NATIVE PHONEMIC DISCRIMINATION CAPACITIES IN YOUNG ADULTS: RELATIONSHIPS TO STATISTICAL LEARNING OF SPEECH *Yu Jin[1], Anna Basora[1], Nuria Sebastian-Galles[1]; [1]Universitat Pompeu Fabra*

B27 TRACKING NEURAL PROCESSING OF WORD STRESS AND PHONEMES IN THE FIRST YEAR OF LIFE *Angelika Becker[1], Ulrike Schild[1], Claudia K. Friedrich[1]; [1]University of Hamburg*

B28 TITLE: THREE-MONTH OLD INFANTS ALREADY SHOW ADULT-LIKE ACTIVATION *Claudia Teickner[1], Angelika Becker[1], Claudia K. Friedrich[1]; [1]University of Hamburg*

B29 NEURAL CORRELATES OF VOWEL ENCODING AND DISCRIMINATION IN MONOLINGUAL AND BILINGUAL CHILDREN *Carol Tessel[1], Nancy Vidal[1], Jennifer Gerometta[1], Yan Yu[2], Valerie Shafer[1]; [1]The Graduate Center - CUNY, [2]William Paterson University*

B30 AGE OF SECOND LANGUAGE ACQUISITION AFFECTS CORTICAL THICKNESS IN THE LEFT DORSOLATERAL PREFRONTAL CORTEX *Jonathan Berken[1,2], Kelvin Mok[1], Jen-Kai Chen[1], Vincent L. Gracco[2], Shari Baum[2], Denise Klein[1,2]; [1]Cognitive Neuroscience Unit, Montréal Neurological Institute, McGill University, [2]Centre for Research on Brain, Language, and Music, McGill University*

B31 NEURAL CHANGES IN READING INDUCED BY TRAINING EXECUTIVE FUNCTIONS *Pedro M. Paz-Alonso[1], Maria R. Rueda[2], Sonia Guerra[2], Myriam Oliver[1], Manuel Carreiras[1]; [1]BCBL, Basque Center on Cognition, Brain and Language, [2]Department of Experimental Psychology, University of Granda*

B32 A COMPREHENSIVE NEUROANATOMICAL META-ANALYSIS OF SECOND LANGUAGE FUNCTIONAL IMAGING STUDIES *Kaitlyn M. Tagarelli[1], Sarah Grey[1], Michael T. Ullman[1], Peter E. Turkeltaub[1]; [1]Georgetown University*

B33 THE IDLE BRAIN PREDICTS LEARNING: THE CASE OF PHONETIC TRAINING *Ana Sanjuán[1,3], Noelia Ventura-Campos[1], Julio González[1], Mª Ángeles Palomar-García[1], Aina Rodríguez-Pujadas[1], Núria Sebastián-Gallés[2], Gustavo Deco[2], César Ávila[1]; [1]Universitat Jaume I,Castellon,Spain, [2]Universitat Pompeu Fabra,Barcelona,Spain, [3]Wellcome Trust Centre for Neuroimaging,London,UK*

B34 LEARNING TO READ IRREGULAR WORDS DOES NOT DEPEND ON DISTINCT NEURAL SYSTEMS FROM LEARNING TO READ REGULAR WORDS *Jo S H Taylor[1,2], Kathleen Rastle[3], Matthew H Davis[1]; [1]MRC Cognition and Brain Sciences, Cambridge, [2]Newnham College, University of Cambridge, [3]Royal Holloway, University of London*

B35 NEURAL ACTIVATION TO A LOST FIRST LANGUAGE: INTERNATIONALLY ADOPTED CHILDREN FROM CHINA *Lara Pierce[1], Denise Klein[2], Jen-Kai Chen[2], Fred Genesee[1]; [1]McGill University, [2]Montreal Neurological Institute*

Language Disorders

B37 BLURRING OF LEXICAL MAPPING DUE TO ANTERIOR TEMPORAL ATROPHY *Robert Hurley[1], Ken Paller[1], Emily Rogalski[1], Marsel Mesulam[1]; [1]Northwestern University*

B38 WHITE MATTER DISRUPTION AND LANGUAGE PROCESSING IN FLUENT AND NONFLUENT VARIANTS OF PRIMARY PROGRESSIVE APHASIA *Karine Marcotte[1], Naida Graham[1], Sandra E. Black[1,2,3,4], David F. Tang-Wai[3,5], Tiffany W. Chow[4], Morris Freedman[3,4], Jed A. Meltzer[3,4], Carol Leonard[6], Rochon Elizabeth[1,3]; [1]Toronto Rehabilitation Institute, Toronto, Canada, [2]Sunnybrook Health Sciences Centre, Toronto, Ontario, Canada, [3]University of Toronto, Toronto, Ontario, Canada, [4]Rotman Research Institute - Baycrest Centre, Toronto, Ontario, Canada, [5]University Health Network Memory Clinic, Toronto, Ontario, Canada, [6]University of Ottawa, Ottawa, Ontario, Canada*

B39 CONTEXTUAL PREDICTION IN SCHIZOPHRENIA: MULTIMODAL IMAGING EVIDENCE FROM A SEMANTIC PRIMING PARADIGM *Ellen Lau[1,2,3], Kirsten Weber[1,2], Nate Delaney-Busch[1,2], Candida Ustine[1,2], Kristina Fanucci[1,2], Matti Hamalainen[1], Gina Kuperberg[1,2]; [1]Martinos Center, Massachusetts General Hospital, [2]Tufts University, [3]University of Maryland*

B40 PREDICTIONS FROM THE IMPLICIT PROCEDURAL DEFICIT IMPAIRMENTS IN SLI: A CASE STUDY OF NEUROANATOMICAL CORRELATES OF IMPLICIT LEARNING DEFICITS IN A CHILD WITH SLI AND TWO BIOLOGICAL SIBLINGS. *Yoonho Chung[1], Timothy T Brown[1], Matthew Erhart[1], Anders M Dale[1], Terry L Jernigan[1], Julia L Evans[1,2]; [1]University of California, San Diego, [2]University of Texas, Dallas*

B41 INVESTIGATION OF REAL-TIME LEXICAL SEMANTIC PROCESSING IN A CHILD WITH SPECIFIC LANGUAGE IMPAIRMENTS USING ANATOMICALLY CONSTRAINED MAGNETO-ENCEPHALOGRAPHY (AMEG) *Julia L. Evans[1,2], Timothy T. Brown[2], Matthew Erhart[2], Yoonho Chung[2], Eric Halgren[2]; [1]University of Texas Dallas, [2]UCSD*

B42 LANGUAGE DETERIORATION IN BILINGUAL SPEAKERS WITH ALZHEIMER'S DISEASE: A FOLLOW-UP STUDY *Marco Calabria[1], Paula Marne[1], Mireia Hernández[1,2], Montserrat Juncadella[3], Jordi Gascón-Bayarri[3], Isabel Sala[4], Albert Lleó[4], Jordi Ortiz-Gil[5], Lidia Ugas[5], Rafael Blesa[4], Ramon Reñé[3], Albert Costa[1,6]; [1]Departament de Tecnologies de la Informació i les Comunicacions, Universitat Pompeu Fabra, Barcelona, Spain., [2]Cognitive Neuropsychology Laboratory, Department of Psychology, Harvard University, Cambridge, MA, USA, [3]Hospital Universitari de Bellvitge, L'Hospitalet de Llobregat, Barcelona, Spain, [4]Hospital de la Santa Creu i Sant Pau, Barcelona, Spain, [5]Hospital General de Granollers, Barcelona, Spain, [6]Institució Catalana de Recerca i Estudis Avançats (ICREA), Barcelona, Spain*

B43 INSIGHTS INTO ACUTE APHASIA AND RECOVERY FROM DIASCHISIS THROUGH QUANTIFICATION OF WHITE MATTER TRACT DAMAGE *Argye Hillis[1], Muwei Li[1], Samson Jarso[1], Andreia Faria[1]; [1]Johns Hopkins University School of Medicine*

B44 DELAYED LEXICAL ACCESS IN BROCA'S APHASIA *Jungwon Choy[1]; [1]University of Kansas*

B45 DYSLEXIA, GENDER AND HEREDITY *Turid Helland[1]; [1]University of Bergen*

Lexical Semantics

B46 MULTIPLE ROUTES FOR COMPOUND WORD PROCESSING IN THE BRAIN: ERP EVIDENCE *Lucy J MacGregor[1], Yury Shtyrov[1]; [1]MRC Cognition and Brain Sciences Unit*

B47 TMS TO PARS TRIANGULARIS AFFECTS THE SEMANTIC PROCESSING OF SENTENCES *Sylvia Vitello[1], Joseph T. Devlin[1], Jennifer M. Rodd[1]; [1]UCL*

B48 DOPAMINERGIC MODULATION OF SENTENCE BASED AMBIGUITY PROCESSING *David Copland[1], Katie McMahon[1], Greig de Zubicaray[1]; [1]The University of Queensland*

B49 EFFECTS OF SEMANTIC CATEGORY ON TEMPORAL AND SPATIAL DYNAMICS OF BRAIN ACTIVATION DURING INTERNALLY GUIDED WORD GENERATION *Irina Simanova[1,2], Marcel van Gereven[2], Robert Oostenveld[2], Peter Hagoort[1,2]; [1]Donders Institute for Brain, Cognition and Behaviour, Radboud University Nijmegen, Nijmegen, The Netherlands, [2]Max Planck Institute for Psycholinguistics, Nijmegen, The Netherlands*

B50 SUSTAINED MEANING ACTIVATION FOR POLYSEMOUS BUT NOT HOMONYMOUS WORDS: EVIDENCE FROM EEG *Ekaterini Klepousniotou[1], Lucy J MacGregor[2], Jenny Lines[3]; [1]University of Leeds, [2]MRC Cognition and Brain Sciences Unit, Cambridge, [3]University of Stirling*

B51 DISSECTING THE SEMANTIC NETWORK: FMRI EVIDENCE FOR OPPOSING CONTEXT EFFECTS IN REGIONS INVOLVED IN REPRESENTATION VS. CONTROL *Paul Hoffman[1], Richard J. Binney[1,2], Matthew A. Lambon Ralph[1]; [1]University of Manchester, [2]UCSF Memory & Aging Center*

B52 CHARTING THE EFFECTS OF TMS WITH FMRI: CHANGES IN CORTICAL RECRUITMENT AND EFFECTIVE CONNECTIVITY WITHIN THE SEMANTIC CONTROL NETWORK *Beth Jefferies[1], Carin Whitney[1], Mark Hymers[1], Andre Gouws[1]; [1]University of York, UK*

B53 FROM LEXICAL ACCESS TO ARTICULATION: DIFFERENCES BETWEEN NOUNS AND VERBS *Christopher Conner[1], Gang Chen[2], Thomas Pieters[1], Nitin Tandon[1]; [1]Vivian Smith Dept Neurosurgery, UT Houston, [2]Scientific and Statistical Computing Core, National Institute of Mental Health, NIH/HHS*

B54 BEHAVIORAL PRIMING BUT NO N400 IN A CATEGORICAL LIST CONTEXT *Joseph Dien[1], Linzi Gibson[2], Patrick O'Connor[3], James H. Neely[3]; [1]University of Maryland, College Park, [2]Washburn University, [3]State University of New York, Albany*

B55 PLACE AND FACE NAMING DISSOCIATION MEASURED WITH ELECTROCORTICOGRAPHY *Cihan Kadipasaoglu[1], Christopher Conner[1], Thomas Pieters[1], Nitin Tandon[1]; [1]Vivian Smith Dept Neurosurgery, UT Houston*

Motor Control, Speech Production, Sensorimotor Integration

B56 AN ARTIFICIAL NEURAL NETWORK (ANN) MODEL OF SENSORIMOTOR DEVELOPMENT FOR SPEECH *Grant Walker[1], Feng Rong[1], Gregory Hickok[1]; [1]University of California, Irvine*

B57 ARE YOU A TALENTED MIMIC? A NEURO-ACOUSTIC STUDY OF SPEECH SOUND IMITATION ABILITY *Susanne Reiterer[1,2], Xiaochen Hu[2,3,4], Sumathi T.A.[5], Nandini C Singh[5]; [1]University of Vienna, Centre for Language Learning and Teaching Research (FDZ), Vienna, Austria, [2]University Clinic Tübingen, Germany, [3]University of Tübingen, Hertie Institute for Clinical Brain Research, Tübingen, Germany, [4]University of Bonn, Clinic for Psychiatry and Psychotherapy (KBFZ), Bonn, Germany, [5]National Brain Research Centre (NBRC), Manesar, India*

B58 LATERALITY EFFECTS OF NEUROSTIMULATION UPON NEW LANGUAGE LEARNING *Anna Woollams[1], Emma Wells[1], Isobel McMillan[1]; [1]Neuroscience and Aphasia Research Unit, School of Psychological Sciences, University of Manchester*

B59 THE FUNCTIONAL NEUROANATOMY OF LEARNING TO ARTICULATE NON-NATIVE WORDS *Anna J Simmonds[1], Robert Leech[1], Paul Iverson[2], Richard J S Wise[1]; [1]Imperial College London, UK, [2]University College London, UK*

B60 GABAERGIC NEUROTRANSMISSION DURING SPEECH PRODUCTION *Kristina Simonyan[1], Arash Fazl[1], Peter Herscovitch[2]; [1]Mount Sinai School of Medicine, [2]Clinical Center, National Institutes of Health*

Orthographic Processing, Writing, Spelling

B61 PHYSIOLOGY OF EARLY VISUAL PROCESSING IN READING *John Hogan[1], Adrian Toll[1], Joseph T. Devlin[1]; [1]Cognitive, Perceptual & Brain Science, UCL*

B62 ORTHOGRAPHIC TRANSPARENCY SHAPES PRE-ORTHOGRAPHIC VISUAL PROCESSING: EVIDENCE FROM BILINGUALISM *Marie Lallier[1], Manuel Carreiras[1,2], Marie-Josèphe Tainturier[3,4], Guillaume Thierry[3,4]; [1]Basque Center on Cognition, Brain and Language, [2]Ikerbasque, Basque Foundation for Science, [3]School of Psychology, Bangor University, [4]ESRC Centre for Bilingualism Research*

B63 LEARNING NEW WRITTEN WORDS: EVIDENCE FROM MASKED FORM PRIMING *Samantha McCormick[1], Kathy Rastle[1]; [1]Royal Holloway University of London*

B64 NEURAL CORRELATES OF READING EXPERTISE IN EARLY AND INTERMEDIATE VISUAL CORTEX: A CROSS-CULTURAL FMRI STUDY WITH FRENCH AND CHINESE READERS. *Marcin Szwed[1,2], Emilie Qiao[3], Antoinette Jobert[2], Stanislas Dehaene[2], Laurent Cohen[3]; [1]Jagiellonian University, Krakow, Poland, [2]INSERM-CEA Cognitive Neuroimaging Unit, Gif sur Yvette, France, [3]CR-ICM Research Center, and Salpétrière Hospital, Paris, France*

B65 WHY IS IT HARD TO READ ARABIC? *Zohar Eviatar[1]; [1]University of Haifa*

B66 DEVELOPING AN ALPHASYLLABARY WRITING SYSTEM FOR ENGLISH: IMPLICATIONS FOR DECODING AND THE VWFA *Elizabeth Hirshorn[1,2,3], Alaina Wrencher[1], John Cordier[1], Michelle Moore[4], Julie Fiez[1,3,4,5]; [1]University of Pittsburgh, Learning Research and Development Center, [2]Pittsburgh Science of Learning Center, [3]Center for the Neural Basis of Cognition, [4]Communication Sciences & Disorders Department, [5]Psychology Department*

B67 NEURAL SUBSTRATES OF CONSISTENCY AND FAMILIARITY EFFECTS ON JAPANESE KANJI WORDS READING: AN FMRI STUDY. *Ayumi Seki[1], Daisuke Tanaka[1], Hitoshi Uchiyama[2]; [1]Tottori University, [2]International University of Health and Welfare*

B68 MORPHOLOGICAL SEGMENTATION AND ORTHOGRAPHIC TRANSPARENCY IN TYPICAL AND DYSLEXIC HEBREW READERS *Tali Bitan[1], Yael Weiss[2], Tami Katzir[2]; [1]Dept. of Communication Sciences and disorders, University of Haifa, [2]Dept. of Learning Disabilities, The E.J. Safra Brain Research center for Learning Disabilities, University of Haifa*

B69 WORD RECOGNITION DURING PARAFOVEAL PREPROCESSING INVOLVES SERIAL LEFT-TO-RIGHT PROCESSING. EVIDENCE FROM AN INFORMATION LOCATION MANIPULATION IN A BOUNDARY PARADIGM WITH PARTIAL DEGRADATION OF WORDS. *Benjamin Gagl[1], Stefan Hawelka[1], Fabio Richlan[1], Mario Braun[1], Florian Hutzler[1]; [1]University of Salzburg*

Poster Session C

Saturday, October 27, 9:30 am – 11:30 am,
Ground Floor Foyer and 1st Floor

Auditory Perception, Speech Perception, Audiovisual Integration

C1 ONLINE AND OFFLINE EFFECTS OF GRADIENT PROSODIC BOUNDARY SIZES ON AMBIGUOUS SENTENCE PROCESSING: AN ERP STUDY. *Efrat Pauker[1,2], Karsten Steinhauer[1,2]; [1]McGill University, [2]CRBLM*

C2 DOES SEMANTIC CONTEXT FACILITATE PERCEPTUAL CLARITY? *Carine Signoret[1], Ingrid Johnsrude[1,2], Elisabeth Classon[1], Mary Rudner[1]; [1]Linnaeus Centre HEAD, Swedish Institute for Disability Research, Department of Behavioural Sciences and Learning, Linköping University, Sweden, [2]Department of Psychology, Queen's University, Canada*

C3 MODALITY-SPECIFICITY IS EVIDENT IN THE MICRO-ORGANIZATION OF "AMODAL" CONCEPTUAL-ACCESS AREAS *Feng Rong[1], Jiang Xu[2], Karen Emmorey[3], Allen Braun[2], Gregory Hickok[1]; [1]Center for Language Science, UC Irvine, [2]Language Section, NIDCD, NIH, [3]Speech, Language & Hearing Sciences, SDSU*

C4 PREDICTIONS IN SPEECH COMPREHENSION: FMRI EVIDENCE ON THE METER-SEMANTIC INTERFACE *Kathrin Rothermich[1], Sonja Kotz[2]; [1]1International Laboratory for Brain, Music and Sound Research (BRAMS), Université de Montréal, Canada, [2]Research Group "Subcortical Contributions to Comprehension", Department of Neuropsychology, Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany*

C5 VISUAL INFORMATION AND TALKER FAMILIARITY IN SPEECH PROCESSING *MICHAEL GROSVALD[1], Howard Nusbaum[2], Steven Small[1]; [1]Department of Neurology, University of California at Irvine, [2]Department of Psychology, University of Chicago*

C6 EEG OSCILLATION DYNAMICS DURING SPEECH AND NON-SPEECH SOUND PERCEPTION *Yu Jin[1], Núria Sebastián Gallés[1]; [1]Universitat Pompeu Fabra*

C7 OSCILLATORY FUNCTIONAL CONNECTIVITY IN SPEECH COMPREHENSION AND OTHER NATURALISTIC TASKS *Antti Jalava[1], Timo Saarinen[1], Jan Kujala[1], Claire Stevenson[1], Riitta Salmelin[1]; [1]Aalto University*

C8 PERCEPTION OF CONTINUOUS ACOUSTIC CUES IN SPEECH REVEALED BY THE AUDITORY N1 AND P3 ERP COMPONENTS *Joseph Toscano[1], Bob McMurray[2]; [1]University of Illinois at Urbana-Champaign, [2]University of Iowa*

C9 AUDITORY MASKED PRIMING AND LEXICAL PROCESSING IN PEOPLE WITH DIFFERING FAMILIAL HANDEDNESS *Julia Fisher[1], Roeland Hancock[1], Thomas G. Bever[1]; [1]University of Arizona*

C10 WITHIN-SUBJECT ALPHA POWER IS NEGATIVELY CORRELATED WITH SUBJECTIVE INTELLIGIBILITY - A STUDY OF DEGRADED WORD COMPREHENSION IN MEG *Carolyn McGettigan[1,2,3], Sonja A. Kotz[2], Burkhard Maess[2], Sophie K. Scott[1], Jonas Obleser[2]; [1]UCL Institute of Cognitive Neuroscience, London, UK, [2]Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany, [3]Department of Psychology, Royal Holloway University of London, Egham, UK*

C11 SINEWAVE SPEECH AND NON-SPEECH CAN REVEAL DISTINCT SPEECH-MODE AND SPEECH-INTELLIGIBILITY EFFECTS IN THE CORTICAL SPEECH PERCEPTION NETWORK. *Pradheep Shanmugalingam[1], Carolyn McGettigan[1], Zarinah Agnew[1], Stuart Rosen[1], Sophie K Scott[1]; [1]UCL*

C12 THE DISTRIBUTION OF CORTICAL SURFACE AREA DEDICATED TO AUDITORY TEMPORAL RECEPTIVE FIELDS IS SYMMETRIC BETWEEN HEMISPHERES IN HUMAN AUDITORY CORE AND BELT *Jonathan Venezia[1], Brian Barton[1], Kourosh Saberi[1], Alyssa Brewer[1], Gregory Hickok[1]; [1]University of California, Irvine*

Language Development, Plasticity, Multilingualism

C13 NEURAL SUBSTRATES UNDERLYING THE PRIMACY EFFECT IN STATISTICAL LEARNING *Elisabeth A. Karuza[1], Ping Li[2], Daniel J. Weiss[2], Richard N. Aslin[1]; [1]University of Rochester, USA, [2]Pennsylvania State University, USA*

C14 WHEN LANGUAGE SHAPES NUMERICAL PROCESSES. *Elena Salillas[1], Manuel Carreiras[1,2]; [1]BCBL. Basque Center on Cognition, Brain and Language, [2]IKERBASQUE. Basque foundation for Science*

C15 "VISUAL" CORTEX IS INCORPORATED INTO THE LANGUAGE NETWORK OF CONGENITALLY BLIND ADULTS: EVIDENCE FROM RESTING STATE CORRELATIONS. *Marina Bedny[1], Ben Deen[1], Rebecca Saxe[1]; [1]Massachusetts Institute of Technology*

C16 EVENT-RELATED SPECTRAL POWER TO SPOKEN WORDS IN AN L2 RETRIEVAL PRACTICE PARADIGM *Doug Davidson[1], Alejandro Pérez[1], Ainhoa Bastarrika[1]; [1]Basque Center on Cognition, Brain, and Language*

C17 CROSS-LANGUAGE ERP MASKED ASSOCIATIVE PRIMING EFFECTS: EVIDENCE FROM BALANCED BILINGUALS. *Maria Dimitropoulou[1], Jon Andoni Duñabeitia[1], Itziar Laka[2], Manuel Carreiras[1,2,3,4]; [1]Basque Center on Cognition, Brain and Language (BCBL), [2]University of the Basque Country, [3]IKERBASQUE, Basque foundation for Science, [4]Departamento de Filología Vasca, University of the Basque Country UPV/EHU*

C18 THE IMPORTANCE OF PASSIVE LISTENING FOR THE ACQUISITION OF FOREIGN WORDS IN ADULT LEARNERS: EVIDENCE FROM EVENT-RELATED BRAIN POTENTIALS *Micol Vignotto[1,2], Tobias Hartmüller[2], Maria Richter[1,2], Hellmuth Obrig[1,2], Sonja Rossi[1,2]; [1]University of Leipzig, Medical Faculty, Germany, [2]Max Planck Institute for Human Cognitive and Brain Sciences Leipzig, Germany*

C19 BRAIN PLASTICITY WHILE ASSOCIATING A NEW NAME TO A FAMILIAR OR UNFAMILIAR OBJECT: AN EEG LANGUAGE LEARNING STUDY *Sonja Rossi[1,2], Rüdiger Wolf[2], Paula Hillebrand[2], Hellmuth Obrig[1,2]; [1]University of Leipzig, Medical Faculty, Germany, [2]Max Planck Institute for Human Cognitive and Brain Sciences Leipzig, Germany*

C20 BRAIN PLASTICITY IN 6-MONTH-OLD INFANTS: THE IMPACT OF A SEMANTIC TRAINING ON THE PROCESSING OF PHONOTACTIC REGULARITIES DURING WORD LEARNING *Maria Richter[1,2], Micol Vignotto[1,2], Hellmuth Obrig[1,2], Sonja Rossi[1,2]; [1]University of Leipzig, Medical Faculty, Day Clinic for Cognitive Neurology, Leipzig, Germany, [2]Max Planck Institute for Human Cognitive and Brain Sciences, Department of Neurology, Leipzig, Germany*

C21 CAN YOU GUESS WHAT I'M GONNA SAY? WORD ANTICIPATION IN MONOLINGUALS AND BILINGUALS DURING SENTENCE READING. *Alice Foucart[1], Clara Martin[2,3], Eva Moreno[4], Albert Costa[1,5]; [1]Universitat Pompeu Fabra, Barcelona, Spain, [2]Basque Center on Cognition, Brain and Language, Donostia-San Sebastian, Spain, [3]IKERBASQUE, Basque Foundation for Science, Bilbao, Spain, [4]Instituto Pluridisciplinar Universidad Complutense de Madrid, [5]Institució Catalana de Recerca i Estudis Avançats*

C22 TO PEEK AND TO PEER: "VISUAL" VERB MEANINGS ARE LARGELY UNAFFECTED BY CONGENITAL BLINDNESS *Rebecca Saxe[1], Jorie Koster-Hale[1], William Johnston[2], Lindsay Yazzolino[1], Marina Bedny[1]; [1]Massachusetts Institute of Technology, [2]Northeastern University*

Language Disorders

C23 THE RESPONSE OF ANTERIOR CINGULATE CORTEX TO APHASIA REHABILITATION *Sonia Brownsett[1], Jane Warren[1,2], Fatemeh Geranmayeh[1], Howard David[3], Wise Richard[1]; [1]Imperial College London, [2]University College London, [3]University of Newcastle-upon-Tyne*

C24 ATYPICAL SIMPLE TONE DISCRIMINATION AND PROCESSING IN CHILDREN WITH DEVELOPMENTAL LANGUAGE IMPAIRMENT *Sergey Kornilov[1,2,3,4], Nicole Landi[2,3], Natalia Rakhlin[2], Elena Grigorenko[2,3,4,5], James Magnuson[1,3]; [1]University of Connecticut, [2]Yale University, [3]Haskins Laboratories, [4]Moscow State University, [5]Columbia University*

C25 DELAYED AUDITORY FEEDBACK AS A PATHOPHYSIOLOGICAL MODEL OF PROGRESSIVE APHASIA *Jason Warren[1], Sonya Makhmood[1], Phillip Fletcher[1]; [1]Dementia Research Centre, UCL Institute of Neurology, UCL, United Kingdom*

C27 DOES POSTERIOR TEMPOROPARIETAL CORTEX SUPPORT SEMANTIC CONTROL? A DIRECT COMPARISON OF SEMANTIC DEFICITS FOLLOWING TEMPOROPARIETAL, PREFRONTAL AND BILATERAL ANTERIOR TEMPORAL LOBE LESIONS. *Hannah Thompson[1], Krist Noonan[2], Paul Hoffman[3], Matthew Lambon Ralph[3], Elizabeth Jefferies[1]; [1]University of York, UK, [2]Royal United Hospital, Bath, UK, [3]University of Manchester, UK*

C28 LANGUAGE IMPAIRMENTS IN CHILDREN WITH AD/HD AND IN CHILDREN WITH READING DISORDER *Wenche Andersen Helland[1,2], Turid Helland[3], Astri Lundervold[3], May-Britt Posserud[4], Mikael Heimann[5]; [1]Department of Psychiatry, Helse Fonna HF, Norway, [2]Statped Vest, Support System for Special Education, Norway, [3]Department of Biological and Medical Psychology, University of Bergen, Norway, [4]Uni Helse, RKBU Vest, Norway, [5]Department of Behavioural Science, Linköping University, Norway*

C29 A DEFICIT IN NOVEL THOUGHT GENERATION: AN EXECUTIVE FUNCTION ACCOUNT FOR DYNAMIC APHASIA? *Gail Robinson[1], Donna Spooner[2]; [1]School of Psychology, The University of Queensland, Brisbane Australia, [2]Royal Brisbane and Women's Hospital, Brisbane Australia*

C30 DIFFERENTIAL PATTERNS OF FUNCTIONAL OUTCOME IN FIRST EPISODE PATIENTS WITH SCHIZOPHRENIA AND BIPOLAR DISORDER *Clara Isabel González[1], Javier Peña[1], Judit Ciarrusta[1], Sarah Raffety[1], Natalia Ojeda[1]; [1]Faculty of Psychology, University of Deusto, Bilbao, Spain.*

Phonology, Phonological Working Memory

C31 A TRACTOGRAPHY STUDY IN DYSLEXIA: NEUROANATOMIC CORRELATES OF PHONOLOGICAL AND ORTHOGRAPHIC PROCESSING *Maaike Vandermosten[1], Hanne Poelmans[1], Jolijn Vanderauwera[1], Stefan Sunaert[1], Jan Wouters[1], Pol Ghesquière[1]; [1]KU Leuven*

Language Disorders

C32 NEURAL CORRELATES OF AGRAMMATIC SPEECH IN AN OVERT PICTURE DESCRIPTION TASK *Eva Schoenberger[1], Stefan Heim[1,2], Elisabeth Meffert[1], Patricia da Costa Avelar[1], Walter Huber[1], Ferdinand Binkofski[1], Marion Grande[1]; [1]RWTH Aachen University, [2]Research Centre Juelich*

C33 IMPAIRED FIGURATIVE LANGUAGE PROCESSING IN PATIENTS WITH MILD TRAUMATIC BRAIN INJURY: AN FMRI AND DTI STUDY *Fan-pei Yang[1], Yu-Chen Chang[1], Kailyn Bradley[2], C. Wang[2], Brain Dorner[2], Daniel C. Krawczyk[2,3]; [1]National Tsing Hua University, [2]Center for Brain Health, University of Texas at Dallas, Dallas, TX, [3]Southwestern Medical Center, University of Texas Southwestern, Dallas, TX*

Lexical Semantics

C34 THE COMPREHENSION OF EXOPHORIC REFERENCE: AN ERP STUDY *David Peeters[1,2,3], Asli Özyürek[1], Peter Hagoort[1,3]; [1]Max Planck Institute for Psycholinguistics, Nijmegen, The Netherlands, [2]International Max Planck Research School for Language Sciences, [3]Radboud University Nijmegen, Donders Institute for Brain, Cognition, and Behaviour*

C35 TEMPORAL GRADIENTS IN NARRATIVE PRODUCTION FOR EARLY VERSUS LATE ACQUIRED WORDS ACROSS THE LIFESPAN *Alison Paris[1], Kali Woodruff Carr[1], Samantha Morrill[1], Jamie Reilly[1]; [1]University of Florida*

C36 EXPLICIT AND IMPLICIT METAPHORS: AN ERP STUDY *Gwenda L Schmidt-Snoek[1], J Davis VanderVeen[1], Amanda Layman[1], Erin Hildebrandt[1], Audrey Weil[1]; [1]Hope College*

C37 THAT SMALL BUT SIGNIFICANT DIFFERENCE BETWEEN FUNCTIONAL AND PART-WHOLE ASSOCIATIONS *Juliane Muehlhaus[1,2], Stefan Heim[1,2,3], Ute Habel[1,2], Katharina Sass[1,2]; [1]RWTH Aachen University, [2]JARA - Translational Brain Medicine, [3]Research Centre Jülich*

C38 CUMULATIVE SEMANTIC INTERFERENCE (SI) IS NOT LIKE THE SI EFFECT IN BLOCKED CYCLIC NAMING: PERFUSION FMRI EVIDENCE FOR DIFFERING MECHANISMS *Greig de Zubicaray[1], David Howard[2], Katie McMahon[3]; [1]School of Psychology, University of Queensland, [2]School of Education Communication and Language Sciences, Newcastle University, [3]Centre for Advanced Imaging, University of Queensland*

C39 WHAT IS MEANING?: ANATOMICAL AND FUNCTIONAL CONNECTIVITY OF THE COMMON MEANING SYSTEM FOR LANGUAGE AND VISUAL IMAGES *Anne-Lise Jouen[1], Timothy M Ellmore[2], Carol Madden[1], Sullivan Hidot[1], Peter F Dominey[1], Jocelyne Ventre-Dominey[1]; [1]Stem-Cell and Brain Research Institute INSERM U846, Bron, France, [2]Department of Neurosurgery, University of Texas Medical School, Houston, Texas*

C40 MOTOR CORTEX ACTIVITY AFFECTS EARLY ACTION-WORD PROCESSING: MEG-EEG EVIDENCE FOR A CAUSAL LINK BETWEEN LANGUAGE AND ACTION SYSTEMS *Giovanna Mollo[1,2], Friedemann Pulvermüller[1,3], Olaf Hauk[1]; [1]Medical Research Council Cognition and Brain Sciences Unit, Cambridge, UK., [2]Department of Psychology, University of York, UK, [3]Brain Language Laboratory, Department of Philosophy, Freie Universität Berlin, Germany*

C41 CONTEXTUAL EFFECTS ON MOTOR ACTIVATION DURING "ACTION WORD" PROCESSING: GRIP FORCE STUDY OF VOLITION DENOTING SENTENCES *Pia Aravena[1], Viviane Deprez[1], Yves Paulignan[1], Anne Cheylus[1], Victor Frak[2], Tatjana Nazir[1]; [1]L2C2-Institut des Sciences Cognitives, CNRS/UCBL, Université Claude Bernard Lyon1, Lyon, France, [2]Faculté des sciences, Université du Québec à Montréal. Institut de Réadaptation Gingras-Lindsay de Montréal, Centre de Recherche Interdisciplinaire en Réadaptation du Montréal Métropolitain, Université de Montréal, Canada.*

C42 EVENT-PARTICIPANT PRIMING IN SPANISH: A BEHAVIORAL, CORPUS AND ELECTROPHYSIOLOGICAL APPROACH *Camila Zugarramurdi[1], Alvaro Cabana[1,2], Leonel Gómez[2], Juan Valle-Lisboa[1,2]; [1]Fac. de Psicología, Universidad de la República, Uruguay, [2]Fac. de Ciencias, Universidad de la República, Uruguay*

Motor Control, Speech Production, Sensorimotor Integration

C43 CORTICOBULBAR EXCITABILITY DURING SPEECH PRODUCTION REFLECTS A LEFT-HEMISPHERIC SPECIALIZATION FOR A STATE FEEDBACK CONTROL MECHANISM IN FLUENT SPEAKERS BUT NOT IN ADULTS WHO STUTTER *Nicole Neef[1], Linh Hoang[1], Walter Paulus[1], Andreas Neef[1,2], Martin Sommer[1]; [1]Goettingen University, [2]MPI for Dynamics and Self-Organization*

C44 ICA OF MULTI-MODAL EEG DATA REVEALS SHARED NEURAL MECHANISMS FOR THE INTERPRETATION OF LINGUISTIC AND NON-LINGUISTIC STIMULI *Jona Sassenhagen[1], Franziska Kretzschmar[2], Matthias Schlesewsky[2], Ina Bornkessel-Schlesewsky[1]; [1]University of Marburg, [2]University of Mainz*

C45 LEFT PRECENTRAL ROLE IN READING HINDI/ DEVANAGARI: SUPPORT FOR COVERT ARTICULATORY REHEARSAL DURING WORD RECOGNITION? *Chaitra Rao[1], Nandini Singh[1]; [1]National Brain Research Centre, Mansesar, India*

C46 DISTINCT BRAIN NETWORKS UNDERLYING WORD SEGMENTATION REVEALED BY INDEPENDENT COMPONENT ANALYSIS *Diana Lopez-Barroso[1,2], Pablo Ripollés[1,2], Josep Marco-Pallarés[1,2], Antoni Rodríguez-Fornells[1,2,3], Ruth De Diego-Balaguer[1,2,3]; [1]Cognition and Brain Plasticity Group [Bellvitge Biomedical Research Institute-IDIBELL, L'Hospitalet de Llobregat, Spain, [2]Dept. of Basic Psychology, University of Barcelona, Barcelona, Spain, [3]Catalan Institution for Research and Advanced Studies, ICREA, Barcelona, Spain*

C47 NONINVASIVE BRAIN STIMULATION FACILITATES SPEECH MOTOR LEARNING *Jennifer Chesters[1], Hsin-jen Hsu[1], Dorothy Bishop[1], Riikka Mottonen[1]; [1]Oxford University*

Orthographic Processing, Writing, Spelling

C48 ON MODALITY OF THE VISUAL WORD FORM AREA *Philipp Ludersdorfer[1], Eugenia Kulakova[1], Matthias Schurz[1], Fabio Richlan[1], Martin Kronbichler[2,1], Heinz Wimmer[1]; [1]University of Salzburg, [2]Paracelsus Private Medical University Salzburg*

C49 WRITTEN SENTENCE PRODUCTION IN DYSLEXIA: A PRODUCT AND PROCESS PERSPECTIVE *Frøydis Morken[1], Turid Helland[1]; [1]University of Bergen*

C50 MODULATING WORD DECODING FLUENCY IN DYSLEXIC AND NORMAL READERS WITH DIRECT CURRENT STIMULATION OF THE LEFT TEMPOROPARIETAL JUNCTION *Nicola Savill[1,2], Nicholas Davis[1], R. Martyn Bracewell[1], Guillaume Thierry[1]; [1]Bangor University, [2]University of York*

C51 REPETITION, SEMANTIC, AND PHONOLOGICAL MASKED PRIMING: AN MEG STUDY *Lesley A. Sand[1], Peitzu Tsai[2], Alice F. Jackson[1], Donald J. Bolger[1]; [1]University of Maryland, [2]San Jose State University*

C52 LATERALITY IN VENTRAL OCCIPITOTEMPORAL CORTEX CORRELATED WITH LATERALITY IN PRECENTRAL AND INFERIOR FRONTAL GYRI DURING WORD PROCESSING *Mohamed L Seghier[1], Cathy J Price[1]; [1]Wellcome Trust Centre for Neuroimaging, Ion, UCL, UK-London*

C53 FORGET ABOUT THOSE CONSONANTS... IF YOU CAN! *Stéphanie Massol[1], Manuel Carreiras[1,2], Jon Andoni Duñabeitia[1]; [1]Basque Center on Cognition, Brain and Language (BCBL); Donostia, Spain, [2]Ikerbasque, Basque Foundation for Science; Bilbao, Spain*

C54 AUTOMATIC NEURAL PROCESSING OF UNATTENDED LEXICAL INFORMATION IN VISUAL MODALITY *Yury Shtyrov[1], Francesca Carota[1], Clare Cook[1], Galina Goryainova[2], Lucy J. MacGregor[1]; [1]MRC Cognition & Brain Sciences Unit, Cambridge, UK, [2]University of St. Petersburg, Russia*

Phonology, Phonological Working Memory

C55 THE INTERPLAY BETWEEN SOUND AND EMOTIONAL CONTENT OF WORDS: AN ERP STUDY *Susann Ullrich[1], Markus Conrad[1,2], Arash Aryani[1], Arthur M. Jacobs[1]; [1]Freie Universitaet Berlin, Germany, [2]Universidad de La Laguna, Tenerife*

C56 CHARTING THE FUNCTIONAL RELEVANCE OF BROCA'S AREA FOR VISUAL WORD RECOGNITION IN ENGLISH USING FMRI-GUIDED TMS *Katherine L. Wheat[1,2], Piers L. Cornelissen[3], Alexander T. Sack[1,2], Teresa Schuhmann[1,2], Rainer Goebel[1,2], Leo Blomert[1,2]; [1]Maastricht University, NL, [2]Maastricht Brain Imaging Centre, NL, [3]University of York, UK*

C57 NEURAL ACTIVITY DURING AUDITORY LANGUAGE PROCESSING IN OF BILINGUAL AND MONOLINGUAL DEVELOPMENT *Arturo Hernandez[1], Pilar Archila-Suerte[1], Victoria Wagner[1], Isabell Wartenburger[2]; [1]University of Houston, [2]University of Potsdam*

Signed Language

C58 READING ABILITY IN ADULT DEAF NATIVE SIGNERS IS POSITIVELY ASSOCIATED WITH THEIR ABILITY TO JUDGE THE GRAMMATICALLY OF THEIR NATIVE SIGN LANGUAGE *Mary Rudner[1], Eleni Orfanidou[2,3], Velia Cardin[2], Cheryl Capek[4], Bencie Woll[2], Jerker Rönnberg[1]; [1]Linnaeus Centre HEAD, Swedish Institute for Disability Research, Linköping University, Sweden, [2]Deafness, Cognition and Language Research Centre, University College London, UK, [3]Department of Psychology, University of Crete, Greece, [4]School of Psychological Sciences, University of Manchester, UK*

C59 THE ONLINE PROCESSING OF CLASSIFIER CONSTRUCTIONS IN AUSTRIAN SIGN LANGUAGE (ÖGS): AN ERP STUDY *Dietmar Roehm[1], Julia Krebs[1], Ronnie Wilbur[2]; [1]University of Salzburg, [2]Purdue University*

Syntax, Morphology

C60 GENETIC FACTORS IN THE CEREBRAL ASYMMETRIES FOR LANGUAGE AND MUSIC *Daniela Sammler[1,2], Angela D. Friederici[1], Roeland Hancock[3], Roberta Bianco[1], Thomas G. Bever[3]; [1]Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany, [2]University of Glasgow, Glasgow, UK, [3]University of Arizona, Tucson, USA*

C61 TOWARDS A NEUROCOMPUTATIONAL MODEL OF THE ACTOR-STRATEGY IN LANGUAGE COMPREHENSION *Phillip Alday[1], Matthias Schlesewsky[2], Ina Bornkessel-Schlesewsky[1]; [1]Philipps Universität Marburg, [2]Johannes Gutenberg Universität Mainz*

C62 NEURAL CORRELATES OF PROCESSING ENGLISH PASSIVE SENTENCES *Aya Meltzer-Asscher[1], Jennifer Mack[1], Julia Schuchard[1], Cynthia K. Thompson[1]; [1]Northwestern University*

C63 SENSITIVITY TO SYNTACTIC COMPLEXITY THROUGHOUT THE DOMAIN-GENERAL "MULTIPLE DEMAND" SYSTEM *Evelina Fedorenko[1], Edward Gibson[1], Zuzanna Balewski[1], Nancy Kanwisher[1]; [1]MIT*

C64 HIGHER SELF-REPORTED AWARENESS IMPAIRS 'GUT-FEELING': SEGREGATING IMPLICIT AND EXPLICIT SEQUENCE PROCESSING *Julia Udden[1,3], Stephen Whitmarsh[2,3], Karl Magnus Petersson[1,3], Henk Barendregt[4]; [1]Donders Institute for Brain, Cognition and Behaviour, Centre for Cognitive Neuroimaging, Radboud University Nijmegen, Netherlands, [2]Radboud University, Faculty of Science, Nijmegen, The Netherlands, [3]Max Planck Institute for Psycholinguistics, Nijmegen, the Netherlands, [4]Institute for Computing and Information Sciences, Radboud University Nijmegen, Nijmegen, Netherlands*

C65 MONITORING DISAGREEMENT CONFLICTS BUT INTEGRATING UNAGREEMENT MISMATCHES: FMRI EVIDENCE *Ileana Quinones[1], Nicola Molinaro[1], Simona Mancini[1], Juan Andrés Hernández[2], Manuel Carreiras[1,3,4]; [1]Basque Center on Cognition Brain and Language, BCBL, Donostia-San Sebastián, Euskal Herria, Spain, [2]University of La Laguna, Tenerife, Spain, [3]Ikerbasque, Basque Foundation for Science, Bilbao, Spain, [4]Departamento de Filología Vasca, EHU/UPV, Bilbao, Spain*

C66 NEURAL CORRELATES OF THE HEAD-POSITION EFFECT IN PLAUSIBILITY MANIPULATIONS *Dirk-Bart Den Ouden[1], Michael Walsh Dickey[2]; [1]University of South Carolina, [2]University of Pittsburgh*

C67 BROCA'S REGION AND ASPECTS OF NEGATION: A NEW SELECTIVITY PATTERN IN BROCA'S APHASIA, AND A MODEL *Yosef Grodzinsky[1], Trace Love[2], Michele Ferrill[2], Roberto Guttierez[2], Isabelle Deschamps[1], Peter Pieperhoff[3], Katrin Amunts[3], Lewis Shapiro[2]; [1]McGill University, [2]SDSU/UCSD, [3]FZ Jülich*

C68 THE P600 INDEXES RATIONAL ERROR CORRECTION WITHIN A NOISY-CHANNEL MODEL OF HUMAN COMMUNICATION *Edward Gibson[1], Laura Stearns[2], Leon Bergen[1], Marianna Eddy[1], Evelina Fedorenko[1]; [1]MIT, [2]Wellesley College*

C69 PROCESSING GENDER AGREEMENT VIOLATIONS CONTAINING EMOTIONAL WORDS IN SPANISH: AN ERP STUDY *Marcos Díaz[1], Isabel Fraga[1], Juan Carlos Acuña-Fariña[1]; [1]Universidade de Santiago de Compostela*

Poster Session D

Saturday, October 27, 3:20 pm – 5:20 pm,
Ground Floor Foyer and 1st Floor

Auditory Perception, Speech Perception, Audiovisual Integration

D1 MOTOR EXCITABILITY DURING LISTENING TO SPEECH IS NOT MODULATED BY INTELLIGIBILITY *Rowan Boyles[1], Kate Watkins[1], Riikka Mottonen[1]; [1]University of Oxford*

D2 ACOUSTICALLY INVARIANT DECODING OF SPOKEN SYLLABLES USING ARTICULATORY REPRESENTATIONS: EVIDENCE FROM SEARCHLIGHT FMRI *Samuel Evans[1], Matthew, H Davis[1]; [1]MRC Cognition & Brain Sciences Unit*

D3 THE SOUND OF YOUR LIPS: HAPTIC INFORMATION SPEEDS UP THE NEURAL PROCESSING OF AUDITORY SPEECH *Treille Avril[1], Camille Cordeboeuf[1], Coriandre Vilain[1], Marc Sato[1]; [1]Gipsa-Lab, Département Parole & Cognition, CNRS UMR 5216 & Grenoble Université - France*

D4 MOTOR CORTEX EXCITABILITY WHEN LISTENING TO ACCENTED SPEECH *Joseph Devlin[1], John Hogan[1], Daniel Kennedy-Higgins[1], Magdalena Sliwinska[1], Patti Adank[2]; [1]UCL, London, UK, [2]University of Manchester, Manchester, UK*

D5 AUDIOVISUAL SPEECH INTEGRATION DOES NOT RELY ON THE MOTOR SYSTEM: EVIDENCE FROM INTACT MCGURK FUSION IN BROCA'S APHASIA *William Matchin[1], Michelle Ferrill[2,3], Corianne Rogalsky[1], Tracy Love[2,3], Greg Hickok[1]; [1]University of California, Irvine, [2]San Diego State University, [3]University of California, San Diego*

D6 IN VIVO FUNCTIONAL AND MYELOARCHITECTONIC MAPPING OF HUMAN PRIMARY AUDITORY AREAS *Frederic Dick[1], Adam Taylor Tierney[2], Antoine Lutti[3], Oliver Josephs[1,3], Martin I. Sereno[1], Nikolaus Weiskopf[3]; [1]Birkbeck/UCL Centre for NeuroImaging, London, UK, [2]Northwestern University, Evanston, IL, USA, [3]Wellcome Trust Centre for Neuroimaging, UCL Institute of Neurology, University College London, London, UK*

D7 INVESTIGATING AUDITORY-MOTOR PROCESSING OF SPEECH SOUNDS BY COMBINING TMS WITH EEG AND MEG *Riikka Mottonen[1], Gido van de Ven[1], Kate E. Watkins[1]; [1]University of Oxford*

D8 THE SELECTIVE ROLE OF DORSAL PREMOTOR CORTEX IN SPEECH PERCEPTION: A ROLE IN EXPLICIT PHONEME JUDGEMENTS BUT NOT SPEECH COMPREHENSION *Katya Krieger-Redwood[1], Gareth M. Gaskell[1], Shane Lindsay[1], Beth Jefferies[1]; [1]University of York, Psychology Department*

D9 PREDICTION OF ESSENTIAL LANGUAGE SITES BY FMRI AS RECORDED BY BOTH STIMULATION MAPPING AND LOCAL FIELD POTENTIALS *Thomas Pieters[1], Christopher Conner[1], Nitin Tandon[1]; [1]UT Health Science Centers at Houston, Houston Texas*

Lexical Semantics

D10 THE NEURAL REPRESENTATION OF EVENT NOUNS *Suzanne Pendl[1], Colin J. Humphries[1], William L Gross[1], Jeffrey R. Binder[1]; [1]Medical College of Wisconsin*

D11 SPATIAL SEQUENCE PROCESSING INFLUENCES THE COMPREHENSION OF TEMPORAL SEQUENCING CONCEPTS *Jin Xue[1], Jie Yang[2]; [1]School of English Language, Literature and Culture and Center for Language and Cognition, Beijing International Studies University, China, [2]Sackler Institute of Developmental Psychobiology, Department of Psychiatry, Weill Cornell Medical College, New York, USA*

D12 DO EXPECTATIONS INFLUENCE THE WAY UNRELATED UPCOMING WORDS ARE PROCESSED? AN EVENT-RELATED BRAIN POTENTIALS STUDY *Jakub Szewczyk[1]; [1]Jagiellonian University*

D13 WHEN COERCION COMES AS A SURPRISE: AN ERP STUDY IN GERMAN *Francesca Delogu[1], Matthew Crocker[1], Heiner Drenhaus[1]; [1]Saarland University*

D14 MEANING COMPOSITION AND THE LEFT FRONTAL CORTEX *Maria Mercedes Pinango[1], Emily Foster-Hanson[1], Cheryl Lacadie[1], R. Todd Constable[1]; [1]Yale University*

D15 BRAIN AND BEHAVIOURAL CORRELATES OF ACTION SEMANTIC DEFICITS IN AUTISM. *Rachel Moseley[1], Bettina Mohr[2], Michael Lombardo[3], Simon Baron-Cohen[3], Friedemann Pulvermüller[1,4]; [1]MRC Cognition and Brain Sciences Unit, Cambridge, UK, [2]Anglia Ruskin University, Cambridge, UK, [3]Autism Research Centre, University of Cambridge, UK, [4]Free University of Berlin, Germany*

D16 A DIRECT COMPARISON OF 'ARCUATE FASCICULUS-ONLY' VS. DUAL PATHWAY NEUROCOMPUTATIONAL MODELS OF LANGUAGE *Taiji Ueno[1], Satoru Saito[1,2], Mattew A. Lambon Ralph[1]; [1]Neuroscience and Aphasia Research Unit, School of Psychological Sciences, University of Manchester, UK, [2]Department of Cognitive Psychology in Education, Graduate School of Education, Kyoto University, Japan*

D17 UNILATERAL NEOCORTICAL AND MESIAL TEMPORAL LOBE LESIONS DISRUPT SEMANTIC MEMORY REPRESENTATIONS *Pablo Campo[1], Claudia Poch[1], Mercedes Belinchón[1], José Manuel Igoa[1], Rafael Toledano[2], Irene García-Morales[2,3], Antonio Gil-Nagel[2]; [1]Facultad de Psicología. Universidad Autónoma de Madrid, [2]Hospital Ruber Internacional, [3]Hospital Clínico-Universitario San Carlos*

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