

Scientific Program

SNL  2016



Are you running Psychology, Neuroscience or Vision experiments using a computer?

**T
A
K
E
A
C
L
O
S
E
R
L
O
O
K
T
I
M
I
N
G
E
R
R
O
R
M
E
A
N
S
Y
O
U
R
S
T
U
D
Y
M
A
Y
N
O
T
B
E
W
O
R
K
I
N
G
A
S
Y
O
U
I
N
T
E
N
D
E
D
C
A
U
S
I
N
G
S
P
U
R
I
O
U
S
R
E
S
U
L
T
S
. G
U
A
R
A
N
T
E
E
Y
O
U
R
A
B
I
L
I
T
Y
T
O
R
E
P
L
I
C
A
T
E
:
Q
U
I
C
K
L
Y
A
N
D
E
A
S
I
L
Y
C
H
E
C
K
Y
O
U
R
O
W
N
A
C
C
U
R
A
C
Y
. W
O
R
K
S
W
I
T
H
A
N
Y
C
O
M
P
U
T
E
R
-
B
A
S
E
D
S
T
U
D
Y
, E
E
G
, F
M
R
I O
R E
Y
E T
R
A
C
K
E
R.**

1. WHAT – If you are a psychologist, neuroscientist or vision researcher who reports timing accuracy in units of a millisecond, then it's likely your timings are wrong! This can lead to replication failure, spurious results and questionable conclusions. The Black Box ToolKit lets you quickly and easily check your own timing accuracy in terms of stimulus presentation; synchronization with other equipment; and RT accuracy.

2. WHY – Modern hardware may be faster but millisecond timing accuracy is becoming harder to achieve: 'millisecond precision' does not equal 'millisecond accuracy'. Precision simply means timings are reported in units of a millisecond, not that they are accurate! Whatever experiment generator you use, it only knows when it requested a stimulus be shown and not the time when it physically appeared.

3. HOW – Currently self-validation of timing accuracy can only be done quickly and easily with a Black Box ToolKit. This acts as a programmable virtual human that can detect and respond to stimulus events with sub-millisecond accuracy. It enables you to check the accuracy of your own paradigm whilst running in-situ on your own equipment by using external sensors, TTL I/O and your own response devices.

To improve replication and enhance credibility all researchers should self-validate, or self-certify, their own studies in terms of millisecond presentation, synchronization and response timing accuracy.

Not ready for a Black Box ToolKit just yet. Our range of standalone USB response pads, voice keys and USB TTL event marking modules can all help improve your timing in any experiment generator!

To find out more about how we could help you improve your research please visit our website, www.blackboxtoolkit.com.



Serious about science: Serious about timing

The Black Box ToolKit

Measurement & Calibration Tools for Professionals

Welcome to the 8th Annual Meeting of the Society for the Neurobiology of Language

On behalf of the Board and the local organizers, I welcome you to London, the United Kingdom’s largest and most cosmopolitan city. Our society is defined by a collective commitment to understand the neurobiological mechanisms of language. This commitment began with the aphasiologists of the 19th century and continues into the modern age with all its technological advantages.

This year, our meeting program spans both ancient and modern eras. It begins with a reception in the British Museum, with an expert introduction to the history of the Rosetta Stone. The Stone is probably the most iconic historical artefact specifically related to language. This is a perfect historical backdrop to our featured debate on a contemporary ‘hot topic’ in the field of neurobiology of language: the cognitive and neural consequences of bilingualism.

The keynote topics we have arranged for this year are diverse, encompassing the energetic design of the brain, the coupling of cortical oscillations with speech, and the neural adaptations necessitated by deafness and sign language. The major features of our meeting, the slide and poster presentations by members, continue to occupy pride of place. Acknowledging feedback from our members, we have organised poster sessions to allow more space for active discussion of presented work. In addition to the reception, we have arranged three social events, including a Science Showoff in nearby Bloomsbury and two Social Hours: one during an evening poster session and another in a conservatory and private garden. Aside from providing a respite from the scientific program, these events should provide ample opportunity to mingle and connect with colleagues from around the world.

As an indication that our Society and its Meetings continue to mature, we are proud to be able to offer childcare this year, and hope to make it a regular feature. I would like to express my thanks to colleagues on the Organizing Committee: Joe Devlin, Jonathan Peelle, and Lolly Tyler, and to our meeting planner Shauneey Wilson and her colleague Shawna Lampkin, for helping organize this year’s meeting. A special thank you goes to Steve Small who continues to successfully apply for NIH funding to support meetings of the Society he helped create. Thanks also go to all of our abstract reviewers who always ensure the excellent quality of our presentations.

I look forward to seeing you all at this year’s meeting.

Greig de Zubizaray
Chair, Society for the Neurobiology of Language

CONTENTS

2016 Review Committee	2	Keynote Lecture: Anne-Lise Giraud	13
Directors, Committees and Founders	3	Attendee Resources	14
Future Meetings	3	Slide Sessions.....	16
Area Map	4	Slide Session A.....	16
Venue Map	4	Slide Session B.....	16
Schedule of Events	5	Slide Session C.....	17
Sponsors.....	6	Poster Schedule	18
Exhibitors.....	6	Poster Sessions	20
Social Events	7	Poster Session A	20
Abstract Merit Awards	8	Poster Session B.....	24
Travel Awards.....	8	Poster Session C.....	28
Keynote Lecture: Mairéad MacSweeney.....	9	Poster Session D	32
Debate: Ellen Bialystok & Manuel Carreiras	10	Poster Session E.....	36
Keynote Lecture: David Attwell.....	12	Poster Session F.....	40
		Author Index.....	45

2016 Review Committee

Alyson Abel
Patti Adank
F.-Xavier Alario
Nicolás Araneda Hinrichs
Martijn Baart
Venu Balasubramanian
Juliana Baldo
Michal Ben-Shachar
Anna Beres
Jonathan Berken
Jeffrey Binder
Tali Bitan
Leonardo Bonilha
Ina Bornkessel-Schlesewsky
Heather Bortfeld
Jonathan Brennan
Bradley Buchsbaum
Stefano Cappa
Manuel Carreiras
Edward Chang
Joanna Chen Lee
Alex Clarke
Emily L. Coderre
David Corina
Branch Coslett
Claudia Cramer
Matt Davis
Greig de Zubicaray
Ghislaine Dehaene-Lambertz
Dirk den Ouden
Isabelle Deschamps
Barry Devereux
Joseph Devlin
Michele Diaz
Anthony Dick
Frederic Dick
Nina Dronkers
Julia Evans
Samuel Evans
Zohar Eviatar
Li-Ying Fan
Adam Feinstein
Leonardo Fernandino
Fernanda Ferreira
Roberto A. Ferreira
Paul Fillmore
Stephanie Forkel
Carolina Gattei
Heidi Getz

Sharon Geva
Ladan Ghazi-Saidi
Murray Grossman
Thomas Gunter
Ayse Gürel
Liberty Hamilton
Uri Hasson
Olaf Hauk
Jessica Hodgson
Andreas Højlund
Henrietta Howells
Nina Hsu
Annika Hultén
Colin Humphries
Xiaoming Jiang
Margaret Kamowski-Shakibai
Katerina Danae Kandylaki
Anne Keitel
Juliane Klann
Denise Klein
Vanja Kljajevic
Robert Kluender
Pia Knoeferle
Sonja Kotz
Pralle Kriengwatana
Saloni Krishnan
Stefanie Kuchinsky
Gina Kuperberg
Vicky Lai
Itziar Laka
Nicole Landi
Ellen Lau
Laurie Lawryer
Chia-lin Lee
Frederique Liegeois
Angelika Lingnau
Tali Linzen
Philipp Ludersdorfer
Jennifer Mack
Mairead MacSweeney
Alec Marantz
Marla Marquez
Lars Meyer
Nicola Molinaro
Kathrin Müsch
Emily Myers
Mante Nieuwland
Caroline Niziolek
Helen Nuttall

Jonathan O’Muircheartaigh
Myung-Kwan Park
Jonathan Peelle
Sara Pillay
Ana Pinheiro
Alberto Pisoni
Stephen Politzer-Ahles
Amy Price
Liina Pylikkänen
Jamie Reilly
Naianna Robertsson
Sonja Rossi
Mahlega Samira Hassanpour
Daniela Sammler
Hilary Sandberg
Mathias Scharinger
Kevin Schluter
Julie Schneider
Julia Schuchard
Michael Schwartze
Katrien Segaert
Mohamed Seghier
Yury Shtyrov
Tineke Snijders
Christina Sotiropoulou
Tamara Swaab
Hannah Thompson
Sukru Torun
Pascale Tremblay
Tae Twomey
Julia Udden
Kenny Vaden
Sophia van Hees
Jonathan Venezia
Jane Warren
Kate Watkins
Jacqueline Weaver
Nicole Wicha
Roel Willems
Joshua Williams
Stephen Wilson
Zoe Woodhead
Jie Yang
Say Young Kim
Emily Zane
Jason Zevin
Linmin Zhang

Directors, Committees and Founders

2016 Board of Directors

Greig de Zubicaray, Chair
Queensland University of Technology

Ina Bornkessel-Schlesewsky, Treasurer
University of South Australia

Liina Pylikkänen, Secretary
New York University

Jonathan Peelle, Meeting Liaison
Washington University in St. Louis

Lorraine K. Tyler, Chair Elect
University of Cambridge

Patti Adank, Treasurer Elect
University College London

Matt Davis, Secretary Elect
MRC Cognition and Brain Sciences Unit

David Corina, Meeting Liaison Elect
University of California, Davis

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

Pascale Tremblay, Past Treasurer
Université Laval

Gina Kuperberg, Past Secretary
Tufts University and Martinos Center for
Biomedical Imaging, Massachusetts General Hospital

Sonja Kotz, Past Meeting Liaison
Maastricht University and the Max Planck Institute
for Human Cognitive and Brain Sciences

2016 Program Committee

Greig de Zubicaray
Queensland University of Technology

Lorraine K. Tyler
University of Cambridge

Jonathan Peelle
Washington University in St. Louis

Joe Devlin
University College London

2016 Nomination Committee

Manuel Carreiras
Basque Center on Cognition, Brain and Language

Sharon Thompson-Schill
University of Pennsylvania

Heather Bortfeld
University of California

SNL Founders

Steven L. Small
University of California, Irvine

Pascale Tremblay
Université Laval

2016 Meeting
AUGUST 17-20, 2016
20 Bedford Way
UCL Institute of Education, London

Future Meetings
SNL 2017
Baltimore, Maryland, USA
SNL 2018
Québec City, Canada

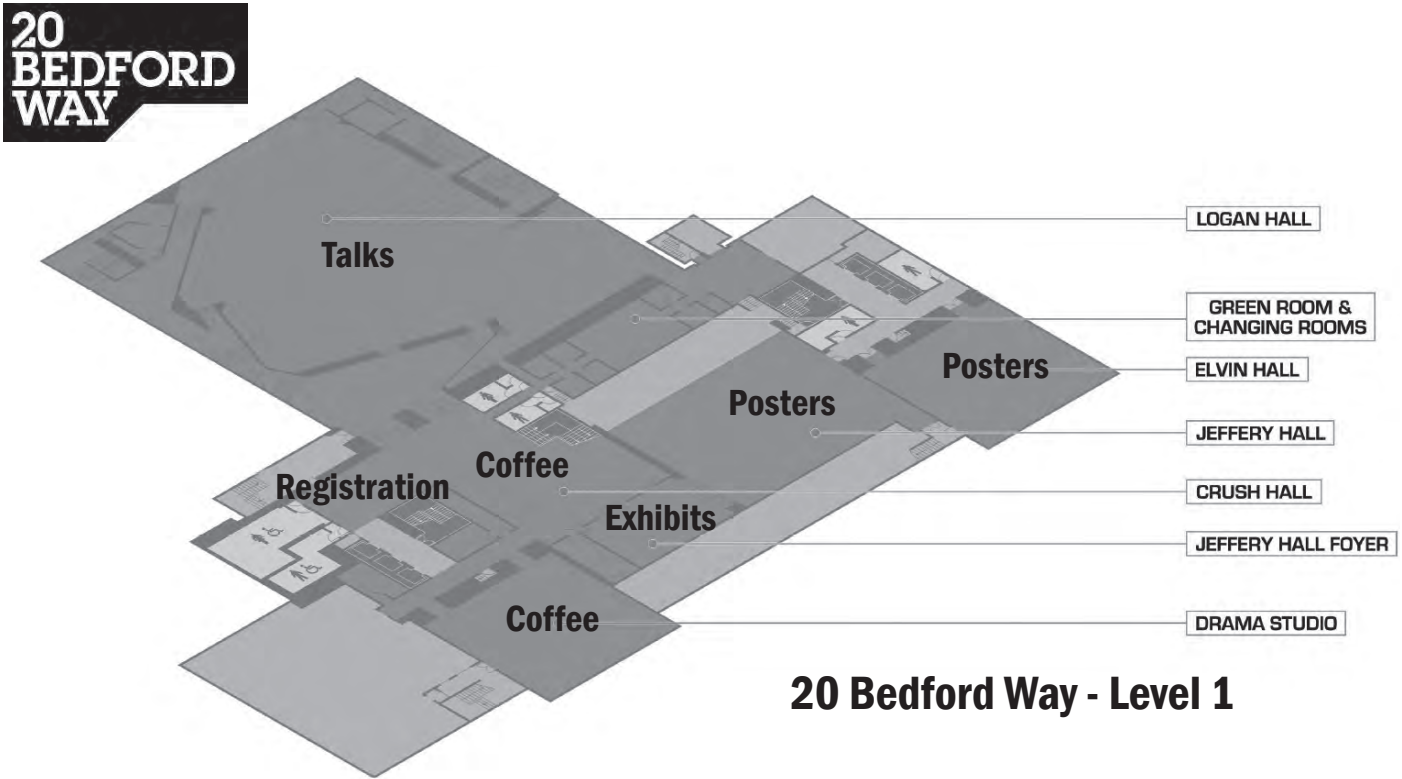
Area Map

The 2016 meeting of the Society for the Neurobiology of Language is being held August 17-20, 2016, at 20 Bedford Way, UCL Institute of Education, London.



Venue Map

The entrance to 20 Bedford Way is on Level 2. SNL registration, talk sessions and posters are on Level 1 (see map below). Childcare (Committee Room 1), live streaming of talks (Committee Room 2), and overflow coffee break seating (Nunn Hall) are on Level 4.



Schedule of Events

Wednesday, August 17th

10:00 am – 5:30 pm	British Museum open to the public <i>Come early and enjoy the museum before the SNL Welcome Reception</i>
5:30 – 8:00 pm	Welcome Reception <i>Offsite, British Museum</i> Museum gates close at 6:00 pm. No entrance to Welcome Reception after 6:00 pm.
7:00 – 7:30 pm	Rosetta Stone Talk <i>At the SNL Welcome Reception, British Museum</i>

Thursday, August 18th

7:30 am – 6:00 pm	Meeting Registration <i>Crush Hall</i>
8:00 – 8:45 am	Coffee and Danish <i>Crush Hall, Drama Studio and Nunn Hall</i>
8:45 – 9:00 am	Opening Remarks: Greig de Zubicaray, Chair <i>Logan Hall</i>
9:00 – 10:00 am	Keynote Lecture: Mairéad MacSweeney Insights into the neurobiology of language processing from deafness and sign language <i>Logan Hall</i>
10:00 – 10:30 am	Coffee Break <i>Crush Hall, Drama Studio and Nunn Hall</i>
10:00 am – 12:00 pm	Poster Session A <i>Jeffery Hall and Elvin Hall</i>
12:00 – 1:30 pm	Lunch (on your own)
1:30 – 3:00 pm	Debate: Ellen Bialystok and Manuel Carreiras The consequences of bilingualism for cognitive and neural function <i>Logan Hall</i>
3:00 – 3:30 pm	Coffee Break <i>Crush Hall, Drama Studio and Nunn Hall</i>
3:00 – 5:00 pm	Poster Session B <i>Jeffery Hall and Elvin Hall</i>
5:10 – 6:30 pm	Slide Session A: Reading and Comprehension <i>Logan Hall</i>
6:30 pm	Social Hour <i>Offsite, Grange White Hall Hotel</i>
7:30 pm	Science Showoff: Brains and Language Special <i>Offsite, Bloomsbury Studio</i>

Friday, August 19th

8:00 am – 7:00 pm	Meeting Registration <i>Crush Hall</i>
8:00 – 8:45 am	Coffee and Danish <i>Crush Hall, Drama Studio and Nunn Hall</i>
8:45 – 9:00 am	Announcements <i>Logan Hall</i>
9:00 – 10:00 am	Keynote Lecture: David Attwell The energetic design of the brain <i>Logan Hall</i>
10:00 – 10:30 am	Coffee Break <i>Crush Hall, Drama Studio and Nunn Hall</i>
10:00 am – 12:00 pm	Poster Session C <i>Jeffery Hall and Elvin Hall</i>
12:00 – 1:30 pm	Lunch (on your own)
1:30 – 3:30 pm	Poster Session D <i>Jeffery Hall and Elvin Hall</i>
3:00 – 3:30 pm	Coffee Break <i>Crush Hall, Drama Studio and Nunn Hall</i>
3:40 – 4:00 pm	Business Meeting <i>Logan Hall</i>
4:00 – 5:20 pm	Slide Session B: Speech Perception and Prediction <i>Logan Hall</i>
5:30 – 7:30 pm	Poster Session E and Social Hour <i>Jeffery Hall and Elvin Hall</i>

Saturday, August 20th

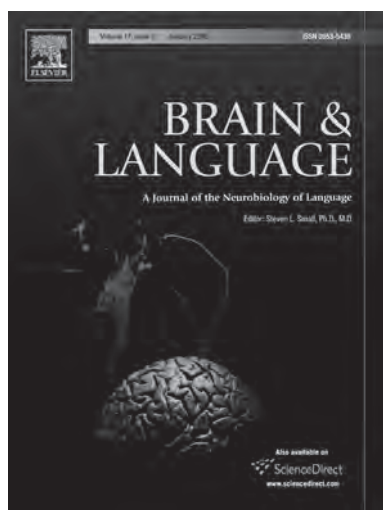
8:00 am – 1:40 pm	Meeting Registration <i>Crush Hall</i>
8:00 – 8:45 am	Coffee and Danish <i>Crush Hall, Drama Studio and Nunn Hall</i>
8:45 – 9:00 am	Announcements <i>Logan Hall</i>
9:00 – 10:00 am	Keynote Lecture: Anne-Lise Giraud Modelling neuronal oscillations to understand language neurodevelopmental disorders <i>Logan Hall</i>
10:00 – 10:30 am	Coffee Break <i>Crush Hall, Drama Studio and Nunn Hall</i>
10:00 am – 12:00 pm	Poster Session F <i>Jeffery Hall and Elvin Hall</i>
12:10 – 1:30 pm	Slide Session C: Language Disorders and Therapy <i>Logan Hall</i>
1:30 – 1:40 pm	Closing Remarks: Lorraine K. Tyler, Chair Elect <i>Logan Hall</i>

Sponsors

The Society for the Neurobiology of Language thanks the following sponsors for their support of our 2016 meeting.

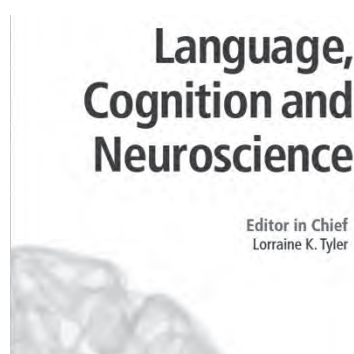
Brain & Language (Elsevier) Gold Sponsor

An interdisciplinary journal, Brain and Language focuses on the neurobiological mechanisms underlying human language. The journal covers the large variety of modern techniques in cognitive neuroscience, including lesion-based approaches as well as functional and structural brain imaging, electrophysiology, cellular and molecular neurobiology, genetics, and computational modeling. All articles must relate to human language and be relevant to an elaboration of its neurobiological basis. Along with an emphasis on neurobiology, journal articles are expected to take into account relevant data and theoretical perspectives from psychology and linguistics.



Language, Cognition & Neuroscience (Routledge) Silver Sponsor

Language, Cognition & Neuroscience publishes high-quality papers taking an interdisciplinary approach to the study of brain and language, and promotes studies that integrate cognitive theoretical accounts of language and its neural bases. The Journal publishes both high quality, theoretically-motivated cognitive behavioural studies of language function, and papers which integrate cognitive theoretical accounts of language with its neurobiological foundations.



Exhibitors

The Society for the Neurobiology of Language thanks the following SNL 2016 exhibitors. Please visit our exhibitors in Jeffery Hall Foyer.

Brain & Language (Elsevier) Gold Sponsor

See description under Sponsors.

Language, Cognition & Neuroscience (Routledge) Silver Sponsor

See description under Sponsors.

Brain Products

Brain Products dedicates itself to the research and understanding of the human brain and nervous system. The focus on positively impacting neuroscience made Brain Products the worldwide leading manufacturer of hard and software solutions for neurophysiological research. Our solutions cover the fields of: ERP, BCI, EEG/fMRI, EEG/TMS, as well as sports, sleep, behavioural sciences and similar disciplines. Since for us at Brain Products a solution is only solution if it covers all the researcher's needs, we also provide caps, sensors, easily integrated stimulation software and much more.

Optoacoustics

Optoacoustics is the leader in high performance optical fiber-based sound and measurement solutions for functional, interventional and clinical MRI and MEG. Optoacoustics MR-safe microphones and headphones provide crisp, clear two-way communications. Our FOMRI-III noise cancelling microphone is today's standard for recording speech in fMRI. We've recently introduced OptoACTIVE slim headphones that actively/passively reduce >95% of EPI gradient noise and deliver high fidelity audio, enabling MR research that could not be done before.

Rogue Resolutions

At Rogue Resolutions, we specialize in bringing together and combining technologies, techniques and services for neuroscience and in doing so, help our customers to conduct robust, credible, replicable and cutting edge research. We achieve this by offering state of the art equipment combined with unrivalled service and support from our experienced team of product and application specialists.

Social Events

Welcome Reception and Rosetta Stone Talk

Wednesday, August 17

Reception: 5:30 – 8:00 pm, Talk: 7:00 – 7:30 pm

Clore Education Centre, British Museum

The museum closes to the public at 5:30 pm. The museum gates close at 6:00 pm. You must arrive before 6:00 pm to attend the SNL Welcome Reception.

SNL invites you to our Welcome Reception on Wednesday, August 17, 5:30 pm at the spectacular British Museum, just steps away from this year's meeting venue. Join your colleagues for an elegant evening of food, drinks and stimulating conversation at one of the world's oldest museums (established in 1753).

The museum is Britain's largest and is widely considered to be one of the world's greatest. The permanent collection comprises over 8 million objects spanning the history of the world's cultures from the stone tools of early man to twentieth century prints. The collection includes controversial items including the Elgin Marbles from the Parthenon in Greece and the Rosetta Stone from Egypt.

Don't miss this occasion to experience one of the world's greatest museums and an opportunity to socialize with colleagues and friends before the meeting commences. The British Museum is open from 10:00 am to 5:30 pm. Plan to spend the day or even just an hour before heading downstairs to the East and West Foyers beneath the Great Court in the Clore Education Centre. There is no admission fee for the museum.

The Rosetta Stone: Greek or Egyptian? Or both?

7:00 – 7:30 pm, During the SNL Welcome Reception

Speaker: Dr. Ilona Regulska

Dr. Ilona Regulska will discuss the role of the Rosetta Stone in understanding both ancient cultures, but also ancient writing systems and their relation to language. Dr. Regulska is the curator for the Rosetta Stone and the Egyptian papyrus collection at the British Museum. Her research focuses on the written culture of Ancient Egypt with concentration on inscribed material culture first-hand, an approach that materialized in a palaeographic study of early writing in Egypt. She is interested in how ancient writing systems came into existence independently in very different cultures and how their trajectories from pictographic to phonological representations developed.

Thursday Social Hour

Thursday, August 18, 6:30 pm

Offsite, Grange White Hall Hotel, Conservatory and Garden, 2-5 Montague Street

Join your colleagues for Social Hour after the meeting on Thursday evening at the charming Grange White Hall Hotel. The Conservatory and Garden will be reserved for SNL attendees only. Complimentary welcome drinks will be offered for the first 200 people.

The Grange White Hall Hotel is a six-minute walk from the meeting venue. To get to the hotel, turn right on Bedford Way; right at Russell Square; left at Montague St. The Grange White Hall Hotel will be on your right at 2-5 Montague Street.

Science Showoff: Brains and Language Special

Thursday, August 18, 7:30 pm

Bloomsbury Studio

Join eight brain experts for a night of chaotic science cabaret, hosted by comedian and celebrity nerd, Steve Cross. Expect to learn things, laugh at things and like things as our specially-chosen neuroscience and psychology brainboxes entertain you in any style they see fit for nine minutes each!

Performers to include Sophie Scott (UCL), Matt Davis (MRC CBU), Kathy Rastle (Royal Holloway), Jenni Rodd (UCL), Carolyn McGettigan (Royal Holloway), Zarinah Agnew (UCSF), Nadine Lavan (Royal Holloway) and Alex Billig (University of Western Ontario).

Admission: £6 in advance with promotion code, £8 at the door on the night of the event. Purchase tickets at <https://www.thebloomsbury.com/event/run/16003>. The SNL promotion code is "broca".

All profits from the ticket sales will go to local charities.

Bloomsbury Studio is a small theatre located on the UCL campus at 15 Gordon Street; a five block, 6-8 minute walk from the SNL meeting location. The theatre has room for only 70 people, so get there early if you want a seat.

Friday Social Hour

Friday, August 19, 5:30 – 7:30 pm

Crush Hall, Drama Studio and Nunn Hall

Friday evening's poster session will feature light snacks and a bar. Your first drink is on us. You'll find a drink ticket in the back of your badge.

Abstract Merit Awards

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

Graduate Student Merit Award Winners

Caroline Beelen, Parenting and Special Education, Faculty of Psychology and Educational Sciences, KU Leuven, Belgium

Dave Kleinschmidt, University of Rochester, USA

Post Doctoral Merit Award Winners

Anne Kosem, Donders Institute for Brain, Cognition, and Behaviour, Radboud University, Netherlands

Matthew Nelson, Institut National de la Santé et de la Recherche Médicale (INSERM) U992, and NeuroSpin Research Center, France

Travel Awards

This year, the Society for the Neurobiology of Language granted 25 Travel Awards. The awards, funded by the National Institutes of Health (NIH), help to cover travel and registration costs for the 2016 Society for the Neurobiology of Language Meeting in London.

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

The 2016 Travel Awards were given to:

Florencia Assaneo, New York University, USA

Elena Barbieri, Northwestern University, USA

Alexander Billig, Western University, Canada

Richard Binney, Temple University, USA

Idan Blank, Massachusetts Institute of Technology, USA

Faith Chiu, University College London, UK

Dawoon Choi, University of British Columbia, Canada

Shruti Dave, University of California, Davis, USA

Junhua Ding, Beijing Normal University, China

Laura Gwilliams, New York University, USA

Viviana Haase, Ruhr University of Bochum, Germany

Paul Hoffman, University of Edinburgh, Scotland

Lela Ivaz, BCBL, Spain

Sladjana Lukic, Northwestern University, USA

Barbara Marebwa, University of South Carolina, USA

Anne Mickan, Radboud University, Netherlands

Maxime Montembeault, University of Montreal, Canada

Lorelei Phillip, University of South Carolina, USA

Amy Price, University of Pennsylvania, USA

Katarzyna Rączy, Jagiellonian University, Poland

Miguel Santos, University of California, San Francisco, USA

Brielle Stark, University of South Carolina, USA

Yingying Tan, Max Planck Institute for Psycholinguistics, Netherlands

David Thornton, The University of Tennessee Health Science Center, USA

Maya Yablonski, Bar-Ilan University, Israel

Keynote Lecture: Mairéad MacSweeney



Mairéad MacSweeney
University College London

Dr. Mairéad MacSweeney is a Wellcome Trust Senior Research Fellow at the University College London Institute of Cognitive Neuroscience where she leads the Visual Communication group. She is also a Co-Director of the UCL Deafness, Cognition and Language Research Centre. She explores how the brain processes language through primarily visual means including reading, gesture, lipreading and sign language. Much of her research focusses on people who were born profoundly deaf.

INSIGHTS INTO THE NEUROBIOLOGY OF LANGUAGE PROCESSING FROM DEAFNESS AND SIGN LANGUAGE

**Thursday, August 18, 2016, 9:00 – 10:00 am,
Logan Hall**

Chair: Greig de Zubicaray, Queensland University of Technology

The study of the neurobiology of language has, until recently, focussed primarily on auditory speech. In this talk I will consider how research with people born deaf can provide a unique perspective into the neural basis of language processing.

First, signed languages can be used as tools to determine the neural systems involved in processing language, regardless of whether it is seen or heard. I will review the current literature which suggests that the neural systems supporting signed and spoken language are very similar, both involving a predominantly left-lateralised perisylvian network. Yet they are not identical. Many recent studies highlight subtle differences between sign and speech processing. These findings have consequences for developing models of language processing that can be applied to all languages.

Second, examining how spoken languages, and representations of spoken languages, are processed in the absence of auditory input (e.g., lipreading/reading) provides unique insights into the influence of altered sensory experience on language processing. This research can help establish, for example, the role of auditory information in learning to read and may inform models of reading development.

Findings from this field further our understanding of how the brain processes language under conditions of altered sensory experience. Importantly however, it also encourages and stimulates the application of a wider, multimodal view of language and communication to the broader hearing population.

Debate: Ellen Bialystok & Manuel Carreiras

THE CONSEQUENCES OF BILINGUALISM FOR COGNITIVE AND NEURAL FUNCTION

Thursday, August 18, 2016, 1:30 – 3:00 pm, Logan Hall

Chair: Jonathan Peelle, Washington University in St. Louis



Ellen Bialystok

Distinguished Research Professor of Psychology at York University and Associate Scientist at the Rotman Research Institute of the Baycrest Centre for Geriatric Care

Ellen Bialystok is a Distinguished Research Professor of Psychology and Walter Gordon York Research Chair of Lifespan Cognitive Development at York University. She is also an Associate Scientist at the Rotman Research Institute of the Baycrest Centre for Geriatric Care. Her research uses both behavioral and neuroimaging methods to examine the effect of experience on cognitive processes across the lifespan, with most attention on the effect of bilingualism. Participants in these studies include children, younger and older adults, and patients, in an attempt to identify the mechanism by which experience modifies cognitive systems. She has published extensively in the form of books, scientific articles, and book chapters. She is a fellow of the Royal Society of Canada, Society for Experimental Psychology, American Psychological Society, and other professional organizations. Among her awards are the Canadian Society for Brain Behaviour and Cognitive Science Hebb Award (2011), Killam Prize for the Social Sciences (2010), York University President's Research Award of Merit (2009), Donald T. Stuss Award for Research Excellence at the Baycrest Geriatric Centre (2005), Dean's Award for Outstanding Research (2002), Killam Research Fellowship (2001), and the Walter Gordon Research Fellowship (1999). In 2016, she was named an Officer of the Order of Canada for her contributions to our understanding bilingualism and for opening up new avenues of research in her field.



Manuel Carreiras

Scientific Director of the BCBL (Basque Center on Cognition, Brain and Language), Donostia-San Sebastián, Spain

Manuel Carreiras is the Scientific Director of the BCBL (Basque Center on Cognition, Brain and Language, Donostia-San Sebastián, Spain) that has been recently awarded the "Severo Ochoa" label of excellence. He is also IKERBASQUE research professor, Honorary Professor of the UCL, and visiting professor of the UPV/EHU. His research focuses on reading, bilingualism and second language learning. He is the editor in chief of *Frontiers in Language Sciences*, and associated editor of *Language, Cognition, and Neuroscience*. He has published more than 200 papers in high impact journals in the field. His research has been funded by different research agencies. He was the coordinator of the Consolider-Ingenio2010 grant entitled COEDUCA, recipient of the ERC advanced grant entitled Bi-Literacy, recipient of the Euskadi Research Prize 2015, and others.

Talk Summary for Ellen Bialystok

There is now substantial evidence supporting the notion of lifelong neuroplasticity from intense experience, a situation that can lead to “cognitive reserve” in older age. The present proposal is that bilingualism is one such experience. Therefore, along with factors like formal education, aerobic exercise, and musical training, bilingualism has systematic consequences for both cognitive function and brain systems that benefit some aspects of cognitive performance and protect against cognitive decline in older age. The proposed mechanism by which these modifications occur will be explained, along with a summary of the evidence showing changes in cognitive and brain function across the lifespan that can be attributed to bilingualism. Following this, specific areas of the research that may appear to be inconsistent with this overall interpretation will be examined in more detail. The conclusion is that the body of evidence obtained from these studies of bilingualism and the underlying mechanism proposed to be responsible are consistent with the notion of lifelong neuroplasticity from bilingualism that lead to measurable changes in cognitive and brain function.

Talk Summary for Manuel Carreiras

Bilingualism and second language learning are interesting cases for understanding (1) whether effects of long term training generalize to other cognitive domains, and (2) brain plasticity. I will argue that, as documented in other cognitive domains, transfer of training effects are minimal. In particular, I will argue that bilinguals do not exhibit enhanced executive control as compared to monolinguals in several behavioral tasks when using tight controls and large samples. The so called “bilingual advantage” is non-existent or may stem from poorly matched samples or other uncontrolled factors. On the other hand, I will argue that the learning and daily use of two languages modulates structural and functional brain connectivity. However, the specific neural consequences of dealing with two languages are still a matter of debate since current findings are quite variable. In any case, it is important to note that differences between bilinguals and monolinguals in structural and functional brain connectivity cannot be used to argue against or in favor of the so called “bilingual advantage”.



Keynote Lecture: David Attwell



David Attwell

Jodrell Professor of Physiology, University College London

David Attwell studied as an undergraduate in Oxford, first in physics and then in physiology. He subsequently did a PhD with Julian Jack, again in Oxford, studying the electrical properties of nerve and muscle cells, before moving to Berkeley to work on the retina in Frank Werblin's lab. On returning to the UK from California, he obtained a lectureship at UCL where he has been ever since, being appointed Jodrell Professor of Physiology in 1995 and made a Fellow of the Royal Society in 2001.

His research career has spanned a wide range of interests, including cardiac electrophysiology, visual information processing, synaptic channels and transporters, glial cells, and brain energy use and supply. He pioneered the use of patch-clamp methods to study how reversal of glutamate transporters causes neurotoxic glutamate release in stroke and related conditions, and (with Simon Laughlin) produced the first "energy budget" assessing the subcellular processes on which the brain uses energy. He has demonstrated that control of cerebral energy supply occurs, not only at the arteriole level, but also at the capillary level mediated by pericytes.

THE ENERGETIC DESIGN OF THE BRAIN

Friday, August 19, 2016, 9:00 – 10:00 am, Logan Hall

Chair: Joe Devlin, University College London

A universal constraint on the evolution of brains is that the nervous system's computational power is limited by its energy supply. By describing an energy budget for the grey matter of the mammalian CNS, I will explain how key design features of the brain are determined by the energy supply the brain receives as oxygen and glucose, and how matching of brain energy supply to brain energy use underpins BOLD functional magnetic resonance imaging. I will examine why the brain's white matter uses less energy than the grey matter, and whether myelination really saves energy. By examining how information flow along axons and through synapses relates to the energy used on these processes, I will show that a key concept in brain design is optimisation of information transfer per energy used. Finally, I will demonstrate that the primary locus of control of the brain's energy supply, and hence of the generation of BOLD fMRI signals, is in capillaries rather than arterioles, outline how dysfunction of this regulatory system occurs after stroke, and highlight the therapeutic opportunities this offers.

Keynote Lecture: Anne-Lise Giraud



Anne-Lise Giraud

Director, Auditory Language Group, Université de Genève

Anne-Lise was born in Lyon and lived there until she obtained her PhD in Neuroscience in 1997 on peripheral auditory neurophysiology. She did a post-doc at the Functional Imaging Lab in London between 1997 and 1999, where she studied the plasticity of auditory and visual systems during deafness and after cochlear implantation, using mainly positron emission tomography (PET) and fMRI. In 2001, Anne-Lise founded the Auditory Language Group, at the Brain Imaging Center in Frankfurt/Main Germany, where she worked on multisensory integration in speech processing.

The group survived a first move in 2004 to the Cognitive Neuroscience Lab of the DEC at Ecole Normale Supérieure Paris, where Anne-Lise took a CNRS research director's position, and a second one in 2012 to the Department of Neuroscience of the University of Geneva, where she is being appointed Director of Neuroscience. Anne-Lise is interested in the transformations of the neural code between cochlear speech encoding and access to meaning. She is particularly dedicated to using basic science to understand the causes of speech and language disorders.

MODELLING NEURONAL OSCILLATIONS TO UNDERSTAND LANGUAGE NEURODEVELOPMENTAL DISORDERS

August 20, 2016, 9:00 – 10:00 am, Logan Hall

Chair: Lorraine K. Tyler, University of Cambridge

Perception of connected speech relies on accurate syllabic segmentation and phonemic encoding. These processes are essential because they determine the building blocks that we can manipulate mentally to understand and produce speech. Segmentation and encoding might be underpinned by specific interactions between the acoustic rhythms of speech and coupled neural oscillations in the theta and low-gamma band. To address how neural oscillations interact with speech, we used a neurocomputational model of speech processing generating biophysically plausible coupled theta and gamma oscillations. We show that speech could be well decoded from the artificial network's low-gamma activity, when the phase of theta activity was taken into account. Based on this model we then asked what could happen to speech perception if different parts of the network were disrupted. We postulated that if low-gamma oscillations were shifted in frequency speech perception would still be possible, but phonemic units within syllables would have different format. Phonemic format anomalies could thus cause difficulties to map idiosyncratic phonemic representations, with universal ones, as those we are taught to become aware of when learning to read. A disruption of the auditory gamma oscillation could hence account for some aspects of the phonological deficit in dyslexia. Using MEG, and EEG combined with fMRI, we observed that dyslexia was associated with faster gamma activity in auditory cortex, and we found that this anomaly could explain several facets of the dyslexia phenotype. We also found that the theta/gamma coupling was preserved despite abnormal gamma frequency. Using a similar approach we reasoned that a disruption of the theta auditory network would likely cause more serious speech perception difficulties, such as perhaps those observed in autism spectrum disorders, as syllabic segmentation would also be altered. Using EEG combined with fMRI, we found that both theta activity and the coupling of auditory and gamma oscillations was profoundly abnormal in autism; this anomaly selectively predicted the severity of verbal impairment in autism. These data suggest that speech and language difficulties in dyslexia and autism can be brought together in a common theoretical framework involving the functional coupling between neural oscillations.

Attendee Resources

ATM

The closest ATM is located across the street in the Royal National Hotel lobby.

Abstracts

The full text of poster, slide, and symposium abstracts can be found in the SNL 2016 Abstracts book, which can be downloaded in PDF format from www.neurolang.org.

Audio-Visual

An LCD projector (e.g., for PowerPoint presentations) will be provided in Logan Hall; however, computers are NOT provided. Presenters must bring their own computers and set them up BEFORE the start of the session in which they are presenting. The stage is set with two lecturns which can be used for alternating between speakers. A switch box is provided to switch the projector display between lecturns. To avoid setup problems affecting your presentation, presenters are strongly encouraged to arrive at their scheduled room a minimum of 30 minutes before their talk.

Baggage Check

A secure space will be allocated for luggage on the last day of the meeting. All items will need to be picked up no later 2:00 pm. Although the space will be secure, items are left at your own risk.

Certificate of Attendance

A signed and dated Certificate of Attendance is on the back of your badge. If you require something additional, we will be happy to email or mail a copy after the meeting. Contact us at info@neurolang.org.

Childcare

Thanks to the funding from the National Institutes of Health, SNL is pleased to be able to offer onsite childcare at this year's meeting in London. We have contracted with Relief Creche Care, a mobile creche company based in London.

Childcare will be offered free of charge, on a first-come first-served basis, for children 0-10 years of age. Drop-ins may be accommodated onsite if room allows, but cannot be guaranteed. Childcare is in Committee Room 1 on Level 4 of 20 Bedford Way.

All Relief Creche Care staff are first aid qualified and DBS cleared with recognized childcare qualifications including NNEBs, NVQs, Degrees, PGCE & Nursing qualifications.

For questions, contact SNL staff at info@neurolang.org or Relief Creche Care at info@reliefcrechecare.co.uk.

Childcare Schedule

Thursday, August 18, 9:00 am – 1:15 pm, 1:30 – 6:30 pm

Friday, August 19, 9:00 am – 1:15 pm, 1:30 – 6:30 pm

Saturday, August 20, 9:00 am – 1:30 pm

Contact Us

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

Copying, Printing and Office Supplies

Liquid Imaging (23a Tavistock Place; <http://www.liquidimaging.co.uk/>) is a 5-minute walk from and offers copying and printing services, including large format printing (posters). Basic office supplies can be purchased from the store in the Student Union (same building as the meeting). A larger office supply store, Rymans, is located inside Waterstones Bookstore on the corner of Gower Street and Tavistock Road (5-minute walk).

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.

Coffee Service

Complimentary coffee and tea service is available to all registered attendees at the times shown below. Coffee service is in Crush Hall with overflow seating in Drama Studio and Nunn Hall (Level 4).

Thursday

Coffee and Danish, 8:00 - 8:45 am

Crush Hall, Drama Studio and Nunn Hall

Coffee Break, 10:00 - 10:30 am

Crush Hall, Drama Studio and Nunn Hall

Afternoon Coffee, 3:00 – 3:30 pm

Crush Hall, Drama Studio and Nunn Hall

Friday

Coffee and Danish, 8:00 - 8:45 am

Crush Hall, Drama Studio and Nunn Hall

Coffee Break, 10:00 - 10:30 am

Crush Hall, Drama Studio and Nunn Hall

Afternoon Coffee, 3:00 – 3:30 pm

Crush Hall, Drama Studio and Nunn Hall

Saturday

Coffee and Danish, 8:00 - 8:45 am

Crush Hall, Drama Studio and Nunn Hall

Coffee Break, 10:00 - 10:30 am

Crush Hall, Drama Studio and Nunn Hall

Future Meetings

SNL 2017 will be held in Baltimore, Maryland, USA

SNL 2018 will be held in Québec City, Canada

Internet

Internet access is complimentary:

1. Connect to the UCLGuest wireless network.
2. Go to any web page and you will be redirected to the UCLGuest Welcome page.
3. Click Self Service.
4. Complete the form to create an account. For the Event code, enter SNL2016.
5. Click Login and enter your username and password.
6. Click Accept.

Go directly to the Login page for subsequent connections.

Live Streaming of Talks

Live streaming of the talks in Logan Hall will be provided in Committee Room 2 on Level 4.

Local Dining

For a Google map of local coffee shops, restaurants and pubs, go to <http://tinyurl.com/snl2016map>.

Lost & Found

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

Meeting Rooms

All general sessions (Keynotes, Debate, and Slides) will be held in Logan Hall.

Messages

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

Mobile Phones

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

Name Badges

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

Onsite Meeting Registration

The SNL Registration Desk is located in Crush Hall, on the lower level of 20 Bedford Way at the UCL Institute of Education. The Registration Desk hours are:

Thursday, August 18, 7:30 am – 6:00 pm

Friday, August 19, 8:00 am – 7:00 pm

Saturday, August 20, 8:00 am – 1:40 pm

Parking

There is no parking available onsite. On-street parking in the neighborhood is available and managed by Camden Council. Private parking is offered within a few minutes' walk by National Car Parks (NCP).

Photography, Video and Recording

Photography, video and audio recording for personal use is permitted. Attendees are encouraged to tweet about the meeting using the hashtag #snlmtg16.

Poster Sessions

Posters are located in the Jeffery and Elvin Halls. See page 18 for the Poster Schedule.

Social Events

See page 7 for details on the SNL Social Events.

Social Media

Attendees are encouraged to tweet about the meeting using the hashtag #snlmtg16.

Smoking

Smoking is not permitted at 20 Bedford Way. A smoking area is provided outside the main entrance.

Speakers

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

Transportation

SNL 2016 will be held at 20 Bedford Way, at the UCL Institute of Education. To reach us:

Traveling by Bus - Bus stops, within a 5 to 15-minute walk, are located on Euston Road, Gower Street, Tottenham Court Road, Woburn Place and Southampton Row. The closest are on Woburn Place and Southampton Row.

Traveling by Tube (underground)

The closest tube station to the venue is Russell Square which is a 5-minute walk, but there are six more within a 5 to 15-minute walk, including: Euston, Euston Square, Goodge Street, Tottenham Court Road, Holborn and Warren Street, providing excellent access to most parts of the city via the Northern, Piccadilly, Victoria, and Central Lines.

Traveling by Train

The closest station to the venue is Euston which is a 10-minute walk or a short taxi ride away. Kings Cross and St Pancras stations are less than a mile away and provide access to national and international rail links.

Traveling by Bicycle

There is a cycle-hire docking station on the east side of the main building, on Bedford Way. It is managed by Transport for London. Visitors arriving on their own bikes may lock them to the perimeter railing of the concourse, on the west side of the main building.

Slide Sessions

Slide Session A

Thursday, August 18, 5:10 – 6:30 pm, Logan Hall

Reading and Comprehension

Chair: Liina Pykkänen

Speakers: Matthew Nelson, Caroline Beelen, Shruti Dave, Ina Bornkessel-Schlesewsky

5:10 pm

A1 Neurophysiological dynamics of phrase structure building during sentence reading

Matthew Nelson^{1,2}, Imen El Karoui^{3,4,5,6}, Kristof Giber⁷, Laurent Cohen^{3,4,5,6,8}, Sydney Cash⁷, Josef Parvizi⁹, Lionel Naccache^{3,4,5,6,8}, John Hale¹⁰, Christophe Pallier^{1,2,11}, Stanislas Dehaene^{1,2,11,12}; ¹Institut National de la Santé et de la Recherche Médicale (INSERM) U992, ²NeuroSpin Research Center, ³Institut National de la Santé et de la Recherche Médicale (INSERM) U1127, ⁴Centre National de la Recherche Scientifique (CNRS) UMR7225, ⁵Université Paris 6, ⁶Institut du Cerveau et de la Moelle Épinrière Research Center (ICM), ⁷Massachusetts General Hospital, ⁸AP-HP Groupe hospitalier Pitié-Salpêtrière, ⁹Stanford University, ¹⁰Cornell University, ¹¹Université Paris 11, ¹²Collège de France

5:30 pm

A2 Pre-reading neuroanatomical anomalies related to developmental dyslexia

Caroline Beelen¹, Jolijn Vanderauwera^{1,2}, Maaike Vandermosten^{1,2}, Jan Wouters², Pol Ghesquière¹; ¹Parenting and Special Education, Faculty of Psychology and Educational Sciences, KU Leuven, Belgium, ²Research Group ExpORL, Department of Neurosciences, KU Leuven, Belgium

5:50 pm

A3 Age-Related Increase in Neural Noise Influences Predictive Processing during Reading

Shruti Dave^{1,2}, Trevor Brothers^{1,2}, Tamara Y Swaab^{1,2}; ¹Center for Mind and Brain, Davis, CA, ²University of California, Davis

6:10 pm

A4 Social categorisation affects sentence comprehension: the role of the angular gyrus as a multimodal hub for contextualised event interpretation

Ina Bornkessel-Schlesewsky¹, Sabine Frenzel², Arne Nagels², Alexander Droege², Jens Sommer², Richard Wiese², Tilo Kircher², Matthias Schlewsky¹; ¹University of South Australia, ²University of Marburg

Slide Session B

Friday, August 19, 4:00 – 5:20 pm, Logan Hall

Speech Perception and Prediction

Chair: Ina Bornkessel-Schlesewsky

Speakers: Jona Sassenhagen, Dave F. Kleinschmidt, Helen Blank, Matthias J. Sjerps

4:00 pm

B1 Multilevel modeling of naturalistic language processing: An application to cross-level predictive processes

Jona Sassenhagen¹, Christian J. Fiebach¹; ¹University of Frankfurt

4:20 pm

B2 Neural mechanisms for coping with talker variability by rapid distributional learning

Dave F. Kleinschmidt¹, T. Florian Jaeger¹, Rajeev Raizada¹; ¹University of Rochester

4:40 pm

B3 Predictive coding but not neural sharpening simulates multivoxel fMRI response patterns during speech perception

Helen Blank¹, Matthew H Davis¹; ¹MRC Cognition and Brain Sciences Unit, Cambridge, UK

5:00 pm

B4 Hierarchical, acoustically-grounded, distinctive features are the dominant representations of perceived speech

Matthias J. Sjerps^{1,2}, Matthew K. Leonard³, Liberty S. Hamilton³, Keith Johnson², Edward F. Chang³; ¹Radboud University, Nijmegen, the Netherlands, ²University of California, Berkeley, United States, ³University of California, San Francisco, United States

Slide Session C

Saturday, August 20, 12:10 – 1:30 pm, Logan Hall

Language Disorders and Therapy

Chair: David Corina

Speakers: Idan Blank, Diego L. Lorca-Puls, Magdalena Sliwinska, Kyrana Tsapkini

12:10 pm

C1 Functional reorganization of the brain networks that support language processing following brain damage in aphasia

Idan Blank¹, Sofia Vallila-Rohter², Swathi Kiran², Evelina Fedorenko³; ¹MIT, ²Boston University, ³Massachusetts General Hospital

12:30 pm

C2 A new TMS-guided lesion-deficit mapping approach identifies brain areas where stroke damage impairs phonological processing

Diego L. Lorca-Puls¹, Andrea Gajardo-Vidal^{1,2}, Mohamed L. Seghier^{1,3}, Alexander P. Leff¹, Varun V. Sethi¹, Susan Prejawa^{1,4}, Thomas M. H. Hope¹, Joseph T. Devlin¹, Cathy J. Price¹; ¹University College London, ²Universidad del Desarrollo, ³Emirates College for Advanced Education, ⁴Max Planck Institute for Human Cognitive and Brain Sciences

12:50 pm

C3 Defining the importance of domain-general brain systems in language.

Magdalena Sliwinska¹, Ines Violante¹, Adam Hampshire¹, Robert Leech¹, Joseph Devlin², Richard Wise¹; ¹Imperial College London, ²University College London

1:10 pm

C4 Imaging tDCS intervention effects in primary progressive aphasia

Kyrana Tsapkini¹, Andreia Faria¹, Ashley Harris², Yenny Webb-Vargas³, Tushar Chakravarty¹, Bronte Ficek¹, Brenda Rapp⁴, John Desmond¹, Richard Edden¹, Constantine Frangakis³, Martin Lindquist³, Argye Hillis¹; ¹Johns Hopkins Medicine, ²University of Calgary, ³Johns Hopkins School of Public Health, ⁴Johns Hopkins University



Poster Schedule

Poster sessions are scheduled on Thursday, August 18 through Saturday, August 20. Poster sessions are 2 hours, and presenting authors are expected to be present the entire time. Posters are located in Jeffery and Elvin Halls. You may post your materials on the board assigned to you starting at the scheduled “Set-up Begins” time shown below. Please note that any posters not removed by “Teardown Complete” time will be discarded. Do not leave personal items in the poster room.

IMPORTANT: Only the supplied velcro tabs are allowed to be used for securing your poster to your board.

Date & Time	Posters	Topics
Poster Session A Thursday, August 18 10:00 am - 12:00 pm <i>Jeffery and Elvin Halls</i>	A1 - A4 A5 - A11 A12 - A16 A17 - A25 A26 - A31 A32 - A37 A38 - A47 A48 A49 - A52 A53 - A55 A56 - A59 A60 - A61 A62 - A63 A64 - A66 A67 - A69 A70 - A71 A72 - A74 A75	Perception: Auditory Perception: Speech Perception and Audiovisual Integration Multilingualism Meaning: Lexical Semantics Language Development Grammar: Morphology Language Disorders Perception: Orthographic and Other Visual Processes Meaning: Combinatorial Semantics Meaning: Discourse and Pragmatics Perception: Orthographic and Other Visual Processes Phonology and Phonological Working Memory Signed Language and Gesture Speech Motor Control and Sensorimotor Integration Control, Selection, and Executive Processes Meaning: Prosody, Social and Emotional Processes Methods Writing and Spelling
Poster Session B Thursday, August 18 3:00 – 5:00 pm <i>Jeffery and Elvin Halls</i>	B1 - B4 B5 - B11 B12 - B17 B18 - B26 B27 - B30 B31 - B32 B33 - B36 B37 - B46 B47 - B50 B51 - B53 B54 - B57 B58 B59 - B60 B61 - B62 B63 - B66 B67 - B69 B70 - B71 B72 - B73 B74	Perception: Auditory Perception: Speech Perception and Audiovisual Integration Multilingualism Meaning: Lexical Semantics Language Development Grammar: Morphology Grammar: Syntax Language Disorders Meaning: Combinatorial Semantics Meaning: Discourse and Pragmatics Perception: Orthographic and Other Visual Processes Language Disorders Phonology and Phonological Working Memory Signed Language and Gesture Speech Motor Control and Sensorimotor Integration Control, Selection, and Executive Processes Meaning: Prosody, Social and Emotional Processes Methods Writing and Spelling
Poster Session C Friday, August 19 10:00 am - 12:00 pm <i>Jeffery and Elvin Halls</i>	C1 - C4 C5 - C11 C12- C17 C18 - C27 C28 - C32 C33 - C38 C39 - C48 C49 - C52 C53 - C55 C56 - C58 C59 - C60 C61 - C62 C63 - C65 C66 - C68 C69 C70 C71	Perception: Auditory Perception: Speech Perception and Audiovisual Integration Multilingualism Meaning: Lexical Semantics Language Development Grammar: Syntax Language Disorders Meaning: Combinatorial Semantics Meaning: Discourse and Pragmatics Perception: Orthographic and Other Visual Processes Phonology and Phonological Working Memory Signed Language and Gesture Speech Motor Control and Sensorimotor Integration Control, Selection, and Executive Processes Meaning: Prosody, Social and Emotional Processes Methods Writing and Spelling

Date & Time	Posters	Topics
Poster Session D	D1 - D4	Perception: Auditory
Friday, August 19	D5 - D11	Perception: Speech Perception and Audiovisual Integration
1:30 - 3:30 pm	D12 - D14	Multilingualism
<i>Jeffery and Elvin Halls</i>	D15 - D23	Meaning: Lexical Semantics
	D24 - D28	Language Development
	D29 - D35	Grammar: Syntax
	D36 - D45	Language Disorders
	D46 - D49	Meaning: Combinatorial Semantics
	D50 - D52	Meaning: Discourse and Pragmatics
	D53 - D56	Perception: Orthographic and Other Visual Processes
	D57 - D58	Phonology and Phonological Working Memory
	D59 - D60	Signed Language and Gesture
	D61 - D63	Speech Motor Control and Sensorimotor Integration
	D64 - D66	Control, Selection, and Executive Processes
Setup Begins: 1:00 pm	D67 - D68	Meaning: Prosody, Social and Emotional Processes
Teardown Complete: 4:00 pm	D69 - D70	Methods
	D71	Writing and Spelling
Poster Session E	E1 - E4	Perception: Auditory
Friday, August 19	E5 - E9	Perception: Speech Perception and Audiovisual Integration
5:30 - 7:30 pm	E10	Signed Language and Gesture
<i>Jeffery and Elvin Halls</i>	E11 - E12	Perception: Speech Perception and Audiovisual Integration
	E13 - E17	Multilingualism
	E18 - E26	Meaning: Lexical Semantics
	E27 - E31	Language Development
	E32 - E37	Grammar: Syntax
	E38 - E46	Language Disorders
	E48 - E50	Meaning: Combinatorial Semantics
	E51 - E53	Meaning: Discourse and Pragmatics
	E54 - E57	Perception: Orthographic and Other Visual Processes
	E58 - E59	Phonology and Phonological Working Memory
	E60	Signed Language and Gesture
	E61 - E63	Speech Motor Control and Sensorimotor Integration
	E64 - E66	Control, Selection, and Executive Processes
Setup Begins: 4:00 pm	E67 - E68	Meaning: Prosody, Social and Emotional Processes
Teardown Complete: 7:45 pm	E69 - E70	Methods
	E71	Writing and Spelling
Poster Session F	F1 - F2	Perception: Auditory
Saturday, August 20	F3 - F8	Perception: Speech Perception and Audiovisual Integration
10:00 am - 12:00 pm	F9 - F15	Multilingualism
<i>Jeffery and Elvin Halls</i>	F16 - F20	Meaning: Lexical Semantics
	F21 - F26	Language Development
	F27 - F31	Grammar: Syntax
	F32 - F36	Language Disorders
	F37	Language Genetics
	F38 - F44	Language Therapy
	F45 - F46	Meaning: Combinatorial Semantics
	F47 - F48	Meaning: Discourse and Pragmatics
	F49	Perception: Orthographic and Other Visual Processes
	F50 - F51	Phonology and Phonological Working Memory
	F52	Signed Language and Gesture
	F53 - F58	Speech Motor Control and Sensorimotor Integration
	F59 - F60	History of the Neurobiology of Language
Setup Begins: 8:30 am	F61	Animal Communication
Teardown Complete: 12:30 pm	F62 - F64	Meaning: Prosody, Social and Emotional Processes
	F65	Methods

Poster Sessions

Poster Session A

Perception: Auditory

A1 Different rule-based violations of stem vowels of German verbs evoke differential ERP effects

Natalia Bekemeier¹, Carsten Eulitz¹; ¹University of Konstanz

A2 Vowel development in infancy: Multidimensional scaling of English vowels using cortical auditory evoked potentials

Kathleen McCarthy¹, Katrin Skoruppa², Paul Iverson¹; ¹University College London, ²University of Basel

A3 How does newborns' brain process speech temporal information?

Laurianne Cabrera^{1,2}, Judit Gervain²; ¹University College London, ²Université Paris Descartes-CNRS

A4 Associations between language and cognitive skills and auditory discrimination in children. An ERP and behavioural study

Tanja Linnavalli¹, Vesa Putkinen^{1,2}, Minna Huotilainen^{3,4}, Mari Tervaniemi³; ¹Cognitive Brain Research Unit, Institute of Behavioural Sciences, University of Helsinki, Finland, ²Department of Music, University of Jyväskylä, Finland, ³Cicero Learning and Cognitive Brain Research Unit, Institute of Behavioural Sciences, University of Helsinki, Finland, ⁴University of Turku, Finland

Perception: Speech Perception and Audiovisual Integration

A5 Characterization of phase entrainment to speech sounds in laminar recordings in monkey A1

Benedikt Zoefel^{1,2,3}, Jordi Costa-Faidella^{3,4}, Peter Lakatos³, Charles E Schroeder³, Rufin VanRullen^{1,2}; ¹Université Paul Sabatier, Toulouse, France, ²Centre de Recherche Cerveau et Cognition (CerCo), CNRS, Toulouse, France, ³Nathan Kline Institute for Psychiatric Research, Orangeburg, NY, United States, ⁴Institute for Brain, Cognition and Behavior (IR3C) and Cognitive Neuroscience Research Group, Department of Psychiatry and Clinical Psychobiology, University of Barcelona, Spain

A6 Effects of phonetic category structure on brain activity during word recognition

Sahil Luthra^{1,2}, Sara Guediche¹, Sheila E. Blumstein¹, Emily B. Myers²; ¹Brown University, ²University of Connecticut

A7 Tracking of Speech Rhythm by Cortical oscillations: an MEG study in typically developing children

Hélène Guiraud¹, Ana-Sofia Hincapié^{2,3}, Karim Jerbi^{*2}, Véronique Boulenger^{*1}; ¹CNRS/Université Lyon 2 UMR 5596, France, ²Université de Montréal, Canada, ³Pontificia Universidad Católica de Chile, Chile

A8 Neural processing of congruent and incongruent audiovisual speech in school-aged children with and without specific language impairment (SLI)

Jenni Heikkilä¹, Kaisa Tiippana¹, Otto Loberg², Paavo Leppänen²; ¹University of Helsinki, ²University of Jyväskylä

A9 Reorganization of the neurobiology of speech perception after sentence overlearning

Yoon Ju Jo¹, Stephen Brown¹, Daniel R Lametti^{1,2}, Serena Lo¹, Emilia Molimpakis¹, Jeremy I Skipper¹; ¹University College London, ²The University of Oxford

A10 A Functional transcranial Doppler sonography (fTCD) study of hemispheric dominance during silent speechreading.

Eva Gutierrez^{1,2}, Rachel Wayne³, Heather Payne¹, Mairead MacSweeney¹; ¹University College London, ²University of Valencia, ³Queen's University

A11 Do you listen to your brain? Oscillatory activity and speech perception

Alejandro Pérez¹, Manuel Carreiras^{1,2}, Jon Andoni Duñabeitia¹; ¹Basque Center on Cognition, Brain and Language, ²IKERBASQUE, Basque Foundation for Science

Multilingualism

A12 Behavioral and neural correlates of bilingual language switching in virtual reality

David Peeters¹; ¹Max Planck Institute for Psycholinguistics, Nijmegen, The Netherlands

A13 Beyond bilingualism - Multilingual language experience correlates with bilateral caudate volume in polyglots

Alexis Hervais-Adelman^{1,2}, Natalia Egorova², Narly Golestani²; ¹Max Planck Institute for Psycholinguistics, ²University of Geneva

A14 Language switching: beneficial or costly?

Evidence from studies with second language learners and trilinguals

Suzanne Hut¹, Alina Leminen^{1,2}, Päivi Helenius³, Jyrki Mäkelä⁴, Minna Lehtonen^{1,5}; ¹Cognitive Brain Research Unit, University of Helsinki, Finland, ²Center of Functionally Integrative Neuroscience, Aarhus University, Denmark, ³Division of Child Neurology, Helsinki University Hospital, Finland, ⁴BioMag Laboratory, HUS Medical Imaging Center, University of Helsinki and Helsinki University Hospital, Finland, ⁵Abo Akademi University, Turku, Finland

A15 Grey matter changes associated to bilingualism across lifespan: combining voxel-based morphometry (VBM) and cortical thickness (CT).

Lorna García-Pentón¹, Yurlem Fernández García¹, Jon Andoni Duñabeitia¹, Manuel Carreiras^{1,2,3}; ¹Basque Center on Cognition Brain and Language (BCBL), Spain, ²IKERBASQUE, Basque Foundation for Science, Spain, ³Euskal Herriko Unibertsitatea, UPV/EHU

A16 Regulation and resolution: How bilingualism and cognitive aging affect the use of executive function in comprehension

Megan Zirnstein¹, Janet G. van Hell², Judith F. Kroll^{1,2}; ¹University of California, Riverside, ²Pennsylvania State University

Meaning: Lexical Semantics

A17 Influence of the degree of object typicality in the course of word production : an ERP study

Raphael Fargier¹, Marina Laganaro¹; ¹FPSE, University of Geneva, Switzerland

A18 The older the better: how language shapes brain connectivity through lifetime

Perrine Ferré¹, Angela Tam¹, Yakoov Stern², Jason Steffener³, Pierre Bellec¹, Yves Joanette¹; ¹CRIUGM, University of Montreal, ²Columbia University, ³Ottawa University

A19 Prediction is production: ERP evidence in sentence comprehension

Clara Martin^{1,2}, Francesca Branzi³, Moshe Bar⁴; ¹BCBL, San Sebastian, Spain, ²Ikerbasque, Bilbao, Spain, ³University of Manchester, UK, ⁴Bar-Ilan University, Tel-Aviv, Israel

A20 Characteristics of abstract speech in bvFTD Katheryn Cousins¹, Sharon Ash¹, Murray Grossman¹;
¹University of Pennsylvania

A21 Changes in neural oscillations provide insight into the engagement of cognitive processes during word learning Alyson Abel¹, Julie M. Schneider², Mandy J. Maguire²;
¹San Diego State University, ²University of Texas at Dallas

A22 Put it in context: Investigating the effects of task demand on word processing Alison Heard¹, Penny M. Pexman¹, Andrea B. Protzner¹; ¹University of Calgary

A23 Investigating the Effect of Experience on Concrete and Abstract Word Processing: A Study with Semantic Priming Task Selgun Yuceil¹, Didem Gokcay²; ¹Middle East Technical University, ²Middle East Technical University

A24 Parietal circuit distinguishing between feminine and masculine entities: an fMRI study of gender agreement processing. Ileana Quinones¹, Nicola Molinaro¹, Simona Mancini¹, Horacio Barber², Juan Andres Hernandez², Manuel Carreiras^{1,3,4}; ¹BCBL. Basque Center on Cognition, Brain and Language, Donostia, Spain, ²Universidad de La Laguna, Tenerife, Spain, ³IKERBASQUE. Basque Foundation for Science. Bilbao, Spain, ⁴University of the Basque Country, UPV/EHU. Bilbao, Spain.

A25 Tracking the learning of new meanings for novel words and known words Xiaoping Fang^{1,2}, Charles Perfetti^{1,2};
¹University of Pittsburgh, ²Center for Neural Basis of Cognition

Language Development

A26 Effects of familial dyslexia on neonatal speech sound processing as reflected by auditory ERPs Anja Thiede^{1,2}, Iina Ala-Kurikka¹, Paula Virtala¹, Eino Partanen^{1,3}, Kaija Mikkola⁴, Teija Kujala¹; ¹Cognitive Brain Research Unit, University of Helsinki, Finland, ²School of Science, Aalto University, Finland, ³Center of Functionally Integrative Neuroscience (CFIN), Aarhus University, Denmark, ⁴Helsinki University Central Hospital, Finland

A27 Past tense production in children with and without specific language impairment: an fMRI study Frederique Liegeois¹, Josefina Ihnen-Jory², Gina Conti-Ramsden³, Sheena Reilly⁴, Lauren Pigdon⁵, Angela Mayes⁵, Alan Connelly^{6,7}, Angela T. Morgan^{5,7};
¹UCL Institute of Child Health, London, UK, ²Pontificia Universidad Católica de Chile, Santiago, Chile, ³University of Manchester, Manchester, UK, ⁴Menzies Health Institute Griffith University, Queensland, Australia, ⁵Murdoch Childrens Research Institute, Melbourne, Australia, ⁶Florey Institute of Neuroscience and Mental Health, Melbourne, Australia, ⁷University of Melbourne, Australia

A28 White matter connectivity in children with speech and/or language impairment: a diffusion weighted imaging and tractography study Angela Morgan^{1,2}, Merina Su³, Lauren Pigdon², Sheena Reilly^{2,4}, Alan Connelly^{1,5}, Frederique Liegeois³; ¹University of Melbourne, ²Murdoch Children's Research Institute, ³University College London Institute of Child Health, ⁴Griffith University, ⁵Florey Institute of Neuroscience and Mental Health

A29 Where is the red ball (moving)?: Differences in the use of locative and directional prepositions in high-functioning autism Agata Bochynska¹, Randi Alice Nilsen¹, Valentin Vulchanov¹, Mila Vulchanova¹; ¹Norwegian University of Science and Technology

A30 Impaired categorical perception of lexical tones in Chinese children with autism: An Event-Related Potential study Xiaoyue Wang¹, Suiping Wang^{1,2,3}, Yuebo Fan⁴, Dan Huang⁴, Wei Zhang^{1,2,3}, Yang Zhang^{5,6}; ¹School of Psychology, South China Normal University, ²Center for Studies of Psychological Application, South China Normal University, ³Guangdong Provincial Key Laboratory of Mental Health and Cognitive Science, South China Normal University, ⁴Guangzhou Rehabilitation and Research Center for Children with Autism, Guangzhou Cana School, ⁵Department of Speech-Language-Hearing Science, University of Minnesota, ⁶Center for Neurobehavioral Development, University of Minnesota

A31 Early Parental Input affects Brain Activation during Auditory Sentence Comprehension in Preadolescent Children Salomi S. Asaridou¹, Özlem Ece Demir-Lira², Susan Goldin-Meadow², Steven L. Small¹; ¹Department of Neurology, University of California, Irvine, ²Department of Psychology, The University of Chicago

Grammar: Morphology

A32 Neurocognitive Correlates of Verbs: Zero-Derivation versus Lexical-Selection costs Sladjana Lukic¹, Aya Meltzer-Asscher², Todd Parrish¹, Cynthia K. Thompson¹;
¹Northwestern University, USA, ²Tel Aviv University, Israel

A33 Processing of nouns and verbs in different contexts: An fMRI study Shiwen Feng¹, Jing Yang², Jennifer Legault³, Ping Li³, Yiming Yang¹; ¹Jiangsu Normal University, ²Guangdong University of Foreign Studies, ³Pennsylvania State University

A34 Production of grammatical and lexical verbs in context: an ERP study. Violaine Michel Lange^{1,2}, Kasper Boye², Hartwig Siebner¹; ¹Danish Research Centre for Magnetic Resonance, Centre for Functional and Diagnostic Imaging and Research, Copenhagen University Hospital Hvidovre, Denmark, ²Department of Scandinavian Studies and Linguistics, University of Copenhagen, Denmark

A35 The role of memory consolidation in learning and generalising inflectional morphology: behavioural and fMRI findings Lydia Vinals^{1,2}, Jelena Mirkovic^{3,4}, Gareth Gaskell³, Matt Davis¹; ¹Cognition and Brain Sciences Unit, ²University of Cambridge, ³University of York, ⁴York St John University

A36 Precision grip and whole hand grasp nominal classifiers in Japanese: An fMRI study Marit Lobben^{1,2}, Tomoko Hansen¹, Friedemann Pulvermüller²; ¹University of Oslo, ²University of Oslo, ³Free University Berlin

A37 White matter pathways associated with morphological processing Maya Yablonski¹, Kathleen Rastle², J.S.H Taylor², Michal Ben-Shachar¹; ¹Bar-Ilan University, ²Royal Holloway, University of London

Language Disorders

A38 Concentric Analysis of Category Naming Fluency in Frontotemporal Degeneration Murray Grossman¹, Phil Cook¹, Corey McMillan¹, Charles Jester¹, Katya Rascovsky¹, Amy Halpin¹, Rachael Lange¹, Olga Kofman¹; ¹University of Pennsylvania

A39 Verbal Working Memory Capacities in Sentence Comprehension: Evidence from Aphasia

Yingying Tan^{1,2}, Randi Martin², Julie Van Dyke³; ¹Max Planck Institute for Psycholinguistics, ²Rice University, ³Haskins Laboratories

A40 Artificial grammar learning tasks reveal global deficits in auditory sequence processing in vascular and progressive non-fluent aphasia

Benjamin Wilson^{1,2}, Thomas E Cope^{1,3}, Holly Robson⁴, Rebecca Drinkall⁵, Lauren Dean¹, Manon Grube¹, Karalyn Patterson^{3,6}, Timothy D Griffiths¹, James B Rowe^{3,6}, Christopher I Petkov^{1,2}; ¹Institute of Neuroscience, Newcastle University, UK, ²Centre for Behaviour and Evolution, Newcastle University, UK, ³Department of Clinical Neurosciences, University of Cambridge, UK, ⁴School of Psychology and Clinical Language Sciences, University of Reading, UK, ⁵Berkshire Healthcare NHS Foundation Trust, Bracknell, UK, ⁶Medical Research Council Cognition and Brain Sciences Unit, Cambridge, UK

A41 From Oscillopathies to Neural Entrainment: Using Language Deficits in Autism and Schizophrenia to (Re)construct an Oscillomic Model of Linguistic Computation

Elliot Murphy¹, Antonio Benítez-Burraco²; ¹University College London, ²University of Huelva

A42 Neural Specialization for the Combination of Parsing and Task Performance

David Caplan¹, Jennifer Michaud¹, Rebecca Hufford¹, Gloria Waters²; ¹Massachusetts General Hospital, ²Boston University

A43 Neural mechanisms of auditory sentence comprehension, canonicity, and syntactic movement in people with aphasia

Eduardo Europa¹, Cynthia K. Thompson^{1,2}; ¹Northwestern University, ²Feinberg School of Medicine

A44 On the association between memory capacity and sentence comprehension: Insights from a systematic review and meta-analysis of the aphasia literature

Maria Varkanitsa¹; ¹Neuropsychology Laboratory, Department of Neurology, Massachusetts General Hospital, Boston, MA, USA

A45 The role of the Uncinate Fasciculus in learning to read

Jolijn Vanderauwera^{1,2}, Stephanie J Forkel³, Marco Catani⁴, Maaïke Vandermosten^{1,2}, Astrid De Vos^{1,2}, Jan Wouters², Pol Ghesquière¹; ¹Parenting and Special Education Research Unit, Faculty of Psychology and Educational Sciences, KU Leuven, Belgium, ²Research Group ExpORL, Department of Neurosciences, KU Leuven, Belgium, ³Natbrainlab, Department of Neuroimaging, Institute of Psychiatry, Psychology and Neurosciences, King's College London, UK, ⁴Natbrainlab, Department of Forensic and Neurodevelopmental Sciences, Institute of Psychiatry Psychology and Neurosciences, King's College London, UK

A46 Subcortical Correlates of Receptive Language Impairment in Children Aged 8-10 with Developmental Coordination Disorder

Alexandra F Bonthrone^{1,2}, Chris A Clark^{1,2}, Angela Morgan^{3,4,5}, Dido Green⁶, Frederique Liegeois^{1,2}; ¹UCL Institute of Child Health, London, UK, ²Great Ormond Street Hospital for Children NHS Trust, London, UK, ³University of Melbourne, Australia, ⁴Royal Children's Hospital, Melbourne, Australia, ⁵Murdoch Childrens Research Institute, Melbourne, Australia, ⁶Centre for Rehabilitation, Oxford Brookes University, Oxford, UK

A47 Language Comprehension and Functional Connectivity in Individuals with Optimal Outcome from Autism Spectrum Disorder

Monica Y.C. Li¹, Michael C. Stevens², Deborah A. Fein¹, Inge-Marie Eigsti¹; ¹University of Connecticut, ²Institute of Living, Hartford Hospital, Connecticut

Perception: Orthographic and Other Visual Processes**A48 The English can't stand the bottle like the Dutch: ERPs show an effect of language on object perception**

Monique Flecken¹, Geertje van Bergen¹; ¹Max Planck Institute for Psycholinguistics

Meaning: Combinatorial Semantics**A49 Effects of language modality on the neural correlates of semantic ambiguity processing**

Lena Maria Holderer¹, Jennifer Rodd¹, Jane Warren¹; ¹University College London

A50 Time course of contextual semantics in spoken language comprehension as revealed by MEG: From automatic lexico-semantic access at 50 ms to top-down control at 400 ms

Yury Shtyrov¹, Lucy J. MacGregor²; ¹Center of Functionally Integrative Neuroscience (CFIN), Aarhus University, Denmark, ²MRC Cognition & Brain Sciences Unit, Cambridge, UK

A52 Silent memory for language processing

Hartmut Fitz¹, Dick van den Broek¹, Marvin Uhlmann¹, Renato Duarte^{2,3,4,5}, Peter Hagoort^{1,6}, Karl Magnus Petersson^{1,6}; ¹Neurobiology of Language Department, Max Planck Institute for Psycholinguistics Nijmegen, the Netherlands, ²Institute of Neuroscience and Medicine (INM-6), Institute for Advanced Simulation (IAS-6) and JARA BRAIN Institute I, Jülich Research Centre, Germany, ³Bernstein Center Freiburg, Albert-Ludwig University of Freiburg, Germany, ⁴Faculty of Biology, Albert-Ludwig University of Freiburg, Germany, ⁵Institute of Adaptive and Neural Computation, School of Informatics, University of Edinburgh, UK, ⁶Donders Institute for Brain Cognition and Behaviour, Center for Cognitive Neuroimaging, Radboud University Nijmegen, the Netherlands

Meaning: Discourse and Pragmatics**A53 The role of semantic control in production of coherent speech: Evidence from young and older adults**

Paul Hoffman¹, Cyril Pernet², Sergio Della Sala¹; ¹Centre for Cognitive Ageing and Cognitive Epidemiology (CCACE) & Department of Psychology, University of Edinburgh, ²Brain Research Imaging Centre (BRIC) & Centre for Clinical Brain Sciences (CCBS), University of Edinburgh

A54 Referential ERP Effects Swing with the Antecedents: A Compilation Study

James Monette¹, John E. Drury¹; ¹Stony Brook University

A55 The contribution of working memory during discourse comprehension: a fMRI study

Xiaohong Yang¹, Nan Lin¹, Yufang Yang¹; ¹Key Laboratory of Behavioral Science, Institute of Psychology, Chinese Academy of Sciences

Perception: Orthographic and Other Visual Processes

A56 What does it mean to regress? The neural basis of regressive eye movements during reading as revealed by concurrent fMRI/eye-tracking measures

Anna Fiona Weiss¹, Franziska Kretschmar², Arne Nagels^{1,3}, Matthias Schlesewsky⁴, Ina Bornkessel-Schlesewsky⁴; ¹Department of Germanic Linguistics, University of Marburg, Marburg, Germany, ²Department of English and Linguistics, Johannes Gutenberg University of Mainz, Mainz, Germany, ³Department of Psychiatry and Psychotherapy, University of Marburg, Marburg, Germany, ⁴School of Psychology, Social Work & Social Policy, University of South Australia, Adelaide, Australia

A57 Where words and space collide: An fMRI investigation of the overlap between spatial attention and reading

Chelsea Ekstrand¹, Marla Mickleborough¹, Layla Gould¹, Eric Lorentz¹, Ron Borowsky¹; ¹University of Saskatchewan

A58 Graded Semantic Similarity Effects in Morphological Decomposition: Evidence from Event-Related Potentials

Marc F Joannis¹, Debra J Jared¹, Olessia Jouravlev²; ¹The University of Western Ontario, ²Massachusetts Institute of Technology

A59 Top-down modulation of early word-like sensitivity in Chinese character recognition

Fang Wang¹, Urs Maurer¹; ¹The Chinese University of Hong Kong

Phonology and Phonological Working Memory

A60 Neural mechanisms for halting and monitoring in spoken word production: the role of phonology

Samuel Hansen¹, Katie McMahon¹, Jennifer Burt¹, Greig de Zubicaray²; ¹University of Queensland, Brisbane, Australia, ²Queensland University of Technology, Brisbane, Australia

A61 Cortical thickness of Planum Temporale in native language tone processing

Andrea Schremm¹, Mikael Novén¹, Merle Horne¹, Mikael Roll¹; ¹Lund University

Signed Language and Gesture

A62 Conduction Aphasia in American Sign Language: Implications for a Neural Model of Sign Language Processing

David Corina¹, Svenna Pedersen², Ursula Bellugi², Greg Hickok³; ¹University of California, Davis, ²Salk Institute for Biological Studies, ³University of California, Irvine

A63 Organization of symbols in the middle temporal gyrus

Beatrice Agostini^{1,2}, Liuba Papeo³, Angelika Lingnau^{1,2}; ¹University of Trento, Italy, ²Royal Holloway University of London, United Kingdom, ³Institut des Sciences Cognitives "Marc Jeannerod", CNRS, France

Speech Motor Control and Sensorimotor Integration

A64 Cortical representation of articulatory targets in speech movements

David Conant^{1,2}, Kristofer Bouchard^{1,3,4}, Edward Chang^{1,2}; ¹Department of Neurological Surgery, University of California San Francisco (UCSF), ²Center for Integrative Neuroscience, UCSF, ³Biological Systems and Engineering Division, Lawrence Berkeley National Laboratories (LBNL), ⁴Computational Research Division, LBNL

A65 Speech Motor Adaptation in People Who Stutter

Abigail Bradshaw¹, Jennifer Chesters¹, John-Stuart Brittain¹, Daniel Lametti¹, Ned Jenkinson², Kate E. Watkins¹; ¹University of Oxford, ²University of Birmingham

A66 Neurophysiological correlates of action word and sound processing in healthy controls and in individuals with autism spectrum disorders: A mismatch negativity (MMN) study

Bettina Mohr¹, Rachel Moseley², Dimitra Kandia³, Neslihan Sener³, Shiva Motlagh⁴, Friedemann Pulvermüller^{3,4}, Stefan Röcke¹, Luigi Grisoni³; ¹Department of Psychiatry, Charité Universitätsmedizin Berlin, Campus Benjamin Franklin, Berlin, Germany, ²Department of Psychology, Bournemouth University, Dorset, UK, ³Brain Language Laboratory, Department of Philosophy and Humanities, Freie Universität Berlin, Berlin, Germany, ⁴Berlin School of Mind and Brain, Humboldt-Universität Berlin, Berlin, Germany

Control, Selection, and Executive Processes

A67 Fronto-parietal connectivity in the extraction of language rules

Joan Orpella^{1,2}, Ruth de Diego-Balaguer^{1,2,3}; ¹Department of Basic Psychology, Universitat de Barcelona, Barcelona, Spain, ²Cognition and Brain Plasticity Unit, IDIBELL (Institut d'Investigació Biomèdica de Bellvitge), L'Hospitalet de Llobregat, Spain, ³ICREA (Catalan Institution for Research and Advanced Studies), Barcelona, Spain

A68 Syntactic processing and proactive interference effects on verbal working memory capacity: A comparison between non-fluent post-stroke aphasia and non-fluent variant PPA

Eleni Peristeri¹, Ianthi-Maria Tsimpli², Kyrana Tsapkini³; ¹Aristotle University of Thessaloniki, GR, ²University of Cambridge, UK, ³Johns Hopkins Medicine, US

A69 Oscillatory neural dynamics underlying the sentence superiority effect

Corinna E. Bonhage¹, Lars Meyer², Thomas Gruber³, Surova Galina², Jutta L. Mueller¹; ¹Institute of Cognitive Science, University of Osnabrueck, ²Max Planck Institute for Human Cognitive and Brain Sciences, ³University of Osnabrueck

Meaning: Prosody, Social and Emotional Processes

A70 Neural mechanisms for monitoring emotional valence during spoken word production

Greig de Zubicaray¹, Kori Ramajoo¹, Katie McMahon², Katharina Sass²; ¹Queensland University of Technology (QUT), Brisbane, Australia, ²University of Queensland, Brisbane, Australia

A71 Insult back or empathize with the insulter? Cognitive strategies for dealing with insults Marijn Struiksmá¹, Hannah De Mulder¹, Ella Bosch¹, Jos van Berkum¹;
¹Utrecht University, UiL-OTS

Methods

A72 Whole-brain fMRI activity at a high temporal resolution Niels Janssen^{1,2}, Juan Andres Hernández-Cabrera^{1,3};
¹Universidad de La Laguna, Spain, ²Institute for Biomedical Technologies, Spain, ³Basque Center for Brain, Cognition, and Language, Spain

A73 Functional segregation of linguistic functions within fronto-parietal networks Valeria Parlatini¹, Joaquim Radua¹, Flavio Dell'Acqua¹, Marco Catani¹, Declan Murphy¹, Michel Thiebaut de Schotten¹; ¹Institute of Psychiatry, King's College London

A74 Bad and good performers in a fMRI paradigm of three gendered language conditions – preliminary results Anelis Kaiser¹; ¹Social Psychology and Social Neuroscience, Institute of Psychology, University of Bern, Switzerland

Writing and Spelling

A75 The impact of orthography on handwriting: A coupled fMRI and kinematics study of the interaction between spelling regularity and motor production. Sarah Palmis¹, Jean-Luc Velay¹, Elie Fabiani¹, Sonia Kandel², Marieke Longcamp¹; ¹Aix-Marseille University, ²Grenoble - Alpes University

Poster Session B

Perception: Auditory

B1 Neural oscillations in the developing auditory brain: a longitudinal dyslexia study Sophie Vanvooren^{1,2}, Astrid De Vos^{1,2}, Pol Ghesquière², Jan Wouters¹; ¹KU Leuven, Department of Neurosciences, ExpORL, Leuven, Belgium, ²KU Leuven, Parenting and Special Education Research Unit, Leuven, Belgium

B2 Neural auditory temporal processing at cortical and subcortical levels in children with and without (a family risk for) dyslexia Astrid De Vos^{1,2}, Sophie Vanvooren^{1,2}, Pol Ghesquière², Jan Wouters¹; ¹KU Leuven, Department of Neurosciences, ExpORL, Leuven (Belgium), ²KU Leuven, Parenting and Special Education Research Group, Leuven (Belgium)

B3 Not all who listen in babble use semantic context alike. Ilse Wambacq¹, Joan Besing¹, Janet Koehnke¹, Abuhuziefa Abubakr²; ¹Montclair State University, ²University of Mississippi Medical Center

B4 Speaker identity in non-verbal signals – variability impairs generalization Nadine Lavan¹, Lucia Garrido², Carolyn McGettigan^{1,3}; ¹Royal Holloway, University of London, ²Brunel University, London, ³University College London

Perception: Speech Perception and Audiovisual Integration

B5 Language-specificity in early cortical responses to speech sounds Anne Cutler^{1,2,3}, Jake Baldacchino¹, Anita Wagner⁴, Varghese Peter¹; ¹The MARCS Institute, Western Sydney University, Australia, ²ARC Centre of Excellence for the Dynamics of Language, Australia, ³Max Planck Institute for Psycholinguistics, The Netherlands, ⁴University Medical Centre Groningen, The Netherlands

B6 Is cortical entrainment to speech a neural correlate of listening effort? Jieun Song¹, Paul Iverson¹; ¹University College London

B7 Audiovisual matching ability in 4.5-month old monolingual and bilingual infants Jovana Pejovic¹, Eiling Yee², Monika Molnar¹; ¹BCBL, Basque Center on Cognition, Brain and Language., ²University of Connecticut.

B8 Theta oscillations determine auditory word segmentation Antje Strauss^{1,2}, Molly Henry³, Jean-Luc Schwartz^{1,2}; ¹CNRS, GIPSA-Lab, F-38000 Grenoble, France, ²Univ. Grenoble Alpes, GIPSA-Lab, F-38000 Grenoble, France, ³Brain and Mind Institute, Western University London, ON, Canada

B9 Tracking lexical garden-path resolution with MEG: Phonological commitment and sensitivity to subphonemic detail are independent Laura Gwilliams^{1,2}, Tal Linzen¹, Kyriaki Neophytou², David Poeppel^{1,3}, Alec Marantz^{1,2}; ¹New York University, ²NYUAD Institute, ³Max-Planck Institute

B10 Perceptual sensitivity to voicing onsets in continuous speech can be indexed by phase resetting of ongoing theta neural oscillations Guangting Mai¹, James W. Minett², William S.-Y. Wang^{2,3}; ¹University College London, ²The Chinese University of Hong Kong, ³The Hong Kong Polytechnic University

B11 Representation of audiovisual speech features in superior temporal cortex investigated with intracranial surface electrodes. Cristiano Micheli¹, Inga M Schepers¹, Müge Özker Sertel², Daniel Yoshor², Michael S Beauchamp², Jochem W Rieger^{1,3}; ¹Department of Psychology, Carl-von-Ossietzky University, Oldenburg, Germany, ²Department of Neurosurgery, Baylor College of Medicine, Houston, TX, USA, ³Helen Wills Neuroscience Institute, UC Berkeley, UC San Francisco, CA, USA

Multilingualism

B12 Unbalanced Math in Bilingual Minds Alejandro Martinez¹, Elena Salillas¹; ¹Basque Center on Cognition, Brain and Language (BCBL)

B13 Why do bilingual speakers have bigger attentional blinks? Insights from ERPs Beinan Zhou¹, Andrea Krott²; ¹University of Oxford, ²University of Birmingham

B14 Cortical Thickness Changes with Short-Term Second Language Vocabulary Training Jennifer Legault¹, Shin-Yi Fang¹, Yumna Ahmed¹, Yu-Ju Lan², Ping Li¹; ¹The Pennsylvania State University, ²National Taiwan Normal University

B15 Bilingual Experience Influences Different Components of Cognitive Control: An fMRI Study Xun Sun¹, Le Li², Guosheng Ding², Ping Li³, Ruiming Wang¹; ¹South China Normal University, ²Beijing Normal University, ³Pennsylvania State University

B16 A tale of two enhancements: Monolinguals catch-up to bilinguals on executive control abilities during adolescence, auditory processing enhancements remain Jennifer Krizman¹, Viorica Marian¹, Silvia Siu-Yin Lam¹, Nina Kraus¹; ¹Northwestern University

B17 How Bilingual are Bilectal Speakers? An fMRI Study of Text Comprehension in Different Language Varieties. Julia M. Schmitt¹, Evelyn C. Ferstl¹, Peter Auer¹; ¹Albert-Ludwigs-Universität Freiburg im Breisgau

Meaning: Lexical Semantics

B18 Selective Action Verb Processing Deficits: Voxel-Based Lesion-Symptom Mapping Jeffrey R. Binder¹, Sara B. Pillay¹, Leonardo Fernandino¹, Colin J. Humphries¹, Diane S. Book¹, Rutvik H. Desai²; ¹Medical College of Wisconsin, Milwaukee, WI, USA, ²University of South Carolina, Columbia, SC, USA

B19 Neuroplasticity of language in left-hemisphere stroke: evidence linking subsecond electrophysiology and structural connectivity Vitoria Piai^{1,2}, Lars Meyer³, Nina Dronkers^{2,4}, Robert Knight¹; ¹Department of Psychology and Helen Wills Neuroscience Institute, University of California, Berkeley, ²Center for Aphasia and Related Disorders, Veterans Affairs Northern California Health Care System, Martinez, California, ³Department of Neuropsychology, Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, ⁴Department of Neurology, University of California, Davis

B20 Cathodal tDCS of the bilateral anterior temporal lobe facilitates semantically-driven word retrieval Bonnie Zuckerman¹, Richard J Binney², Sameer Ashaie³, Jamie Reilly⁴; ¹Temple University, ²Temple University, ³City University of New York, ⁴Temple University

B21 Category-specific verb deficits in Alzheimer's: Thematic structure effects in naming and sentence production with dynamic scenes Roberto G. de Almeida¹, Caitlyn Antal¹; ¹Concordia University

B22 Semantic memory performance following left vs. right anterior temporal lobe resection Grace E Rice¹, Helen Caswell², Perry Moore³, Paul Hoffman⁴, Matthew A Lambon Ralph¹; ¹Neuroscience and Aphasia Research Unit (NARU), School of Psychological Sciences, University of Manchester, UK, ²Department of Clinical Neuropsychology, Salford Royal Hospital, Salford, Manchester, UK, ³The Walton Centre NHS Foundation Trust, Liverpool, UK, ⁴Centre for Cognitive Ageing and Cognitive Epidemiology (CCACE), Department of Psychology, University of Edinburgh, UK

B23 Integration of verbal object descriptions recruits ventral stream including perirhinal cortex Sasa L Kivisaari¹, Ali Faisal¹, Annika Hultén¹, Tiina Lindh-Knuutila¹, Riitta Salmelin¹; ¹Department of Neuroscience and Biomedical Engineering, Aalto University, Finland

B24 Alpha power reflects prediction differences in learning of nouns and verbs Julie Schneider^{1,2}, Mandy J. Maguire^{1,2}, Alyson D. Abel³; ¹Callier Center for Communication Disorders, ²University of Texas at Dallas, ³San Diego State University

B25 Adaptive plasticity in the semantic network: Evidence from combined theta-burst stimulation and functional neuroimaging Gesa Hartwigsen¹, Maren Klein², Max Wawrzyniak², Anika Stockert², Katrin Wrede², Joseph Classen², Dorothee Saur²; ¹Max Planck Institute for Human Cognitive and Brain Sciences, ²University of Leipzig

B26 Explicit retrieval of visual and non-visual properties of concrete entities: Differential involvement of superior temporal sulcus and anterior inferior frontal gyrus Antonietta Gabriella Liuzzi¹, Patrick Dupont¹, Ronald Peeters², Simon De Deyne³, Gerrit Storms³, Rik Vandenberghe^{1,2}; ¹KU Leuven, Laboratory for Cognitive Neurology, Belgium, ²University Hospitals Leuven, Belgium, ³KU Leuven, Laboratory of Experimental Psychology, Belgium

Language Development

B27 Structural brain deficits in Chinese children with English reading impairment Hehui Li¹, Xiaoxia Feng¹, Manli Zhang², Xiujie Yang², Mengyu Tian¹, Weiyi Xie², Xiangzhi Meng², Guosheng Ding¹; ¹Beijing Normal University, ²Peking University

B28 Using brain rhythms to improve behavioral predictors of reading Camila Zugarramurdi^{1,2}, Marie Lallier¹, Juan C. Valle-Lisboa², Manuel Carreiras¹; ¹Basque Center on Cognition Brain and Language (BCBL), ²Facultad de Psicología, Universidad de la Republica

B29 Rule Learning is Modulated by Temporal Attention in Childhood Anna Martinez-Alvarez^{1,3}, Pablo Ripollés^{1,3}, Monica Sanz-Torrent¹, Ferran Pons^{1,4}, Ruth de Diego-Balaguer^{1,2,3}; ¹University of Barcelona, ²ICREA, ³Cognition and Brain Plasticity, IDIBELL, ⁴Institute for Brain, Cognition and Behaviour

B30 Morphological Processing in Chinese-Speaking Children: An Event-Related Potential Study. I-Fan Su¹, Anna Petrova¹, Wei Yan Renee Fung¹, Kai Yan Dustin Lau², Sam Po Law¹, Hei Ling Ho¹; ¹The University of Hong Kong, ²The Hong Kong Polytechnic University

Grammar: Morphology

B31 A quantitative account of the temporal dynamics of reading morphologically complex words Tero Hakala¹, Annika Hultén¹, Minna Lehtonen², Riitta Salmelin¹; ¹Aalto University, Espoo, Finland, ²Abo Akademi University, Turku, Finland

B32 Morphological structure revealed by microsaccades Maya Yablonski¹, Yoram Bonneh¹, Uri Polat¹, Michal Ben-Shachar¹; ¹Bar-Ilan University

Grammar: Syntax

B33 A common neural hub resolves syntactic and non-syntactic conflict through cooperation with task-specific networks Nina Hsu^{1,2,3}, Susanne Jaeggi^{4,5}, Jared Novick^{1,2,3}; ¹Department of Hearing and Speech Sciences, University of Maryland, College Park, ²Program in Neuroscience and Cognitive Science, University of Maryland, College Park, ³Center for Advanced Study of Language, University of Maryland, College Park, ⁴School of Education, University of California, Irvine, ⁵Department of Cognitive Sciences, University of California, Irvine

B34 Expectation effects on the processing of syntactic structure Leon Krocze¹, Angela D. Friederici¹, Thomas C. Gunter¹; ¹Max Planck Institute for Human Cognitive and Brain Sciences

B35 Grammatical constraints on lexical and structural processing strategies: EMEG evidence from Russian morphosyntax Anastasia Klimovich-Smith¹, Elisabeth Fonteneau¹, William Marslen-Wilson¹; ¹University of Cambridge

B36 Plausibility and Agreement Effects of Adjectives on Noun-Noun Compounds in Icelandic: An ERP Study Alicia Parrish¹, Patrick Kelley¹, Alan Beretta¹; ¹Michigan State University

Language Disorders

B37 Meta-analysis of mismatch negativity (MMN) studies on specific language impairment (SLI) Miika Leminen^{1,2,3}, Teija Kujala²; ¹Department of Phoniatrics, Helsinki University Central Hospital, Finland, ²Cognitive Brain Research Unit, Institute of Behavioural Sciences, University of Helsinki, Finland, ³Center of Functionally Integrative Neuroscience, Department of Clinical Medicine, Aarhus University, Denmark

B38 Spoken language following cardiorespiratory arrest in children Sharon Geva¹, Aparna Hoskote², Faraneh Vargha-Khadem¹; ¹Cognitive Neuroscience and Neuropsychiatry Section, UCL Institute of Child Health, 30 Guilford Street, London, UK, ²Cardiac Intensive Care Unit, Critical Care and Cardiorespiratory Division, Great Ormond Street Hospital for Children NHS Foundation Trust, London, UK

B39 Effects of early music intervention on neural speech processing in infants at risk for dyslexia Paula Virtala¹, Jaana Meriläinen¹, Anja Thiede^{1,2}, Kaija Mikkola³, Teija Kujala¹; ¹Cognitive Brain Research Unit, University of Helsinki, Finland, ²Aalto University, Finland, ³Helsinki University Central Hospital, Finland

B40 Impaired automatic and controlled semantic retrieval of words in Chinese dyslexic children: Evidence from lexicality effect on N400 Yu-Lin Tzeng¹, Chun-Hsien Hsu², Chia-Ying Lee^{1,2}; ¹Institute of Neuroscience, National Yang-Ming University, Taipei, Taiwan, ²Institute of Linguistics, Academia Sinica, Taipei, Taiwan

B41 Less is more: facilitating naming in aphasic patients Davide Nardo¹, Rachel Holland², Alexander Leff³, Cathy Price³, Jennifer Crinion¹; ¹Institute of Cognitive Neuroscience, University College London, London, UK, ²Language and Communication Sciences, City University London, London, UK, ³Wellcome Trust Centre for Neuroimaging, University College London, London, UK

B42 Functional ROI activation may predict functional communication and demonstrate post-therapy intervention in post-stroke expressive aphasia Brielle Stark¹, Elizabeth Warburton¹; ¹University of Cambridge

B43 Patients with central alexia rely on direct top-down control of visual cortex from left IFG when reading single words Sheila Kerry¹, Zoe Woodhead¹, Jenny Crinion¹, Oscar Aguilar¹, Will Penny¹, Gareth Barnes¹, Alex Leff¹; ¹University College London

B44 Transcranial direct current stimulation effects on neural processing in post-stroke aphasia Marcus Meinzer¹, Robert Darkow², Andrew Martin¹, Anna Würtz², Agnes Flöel²; ¹The University of Queensland, ²Charité University Medicine

B45 Stimulating reading: Behavioural and neural correlates of left-lateralising tDCS to temporal parietal cortex in adults with developmental dyslexia Isobel McMillan¹, Wael El-Deredy¹, Anna Woollams¹; ¹The University of Manchester

B46 Comparison of voxel-based lesion symptom maps for measures of speech fluency in chronic left-hemisphere stroke Lynda Feenaughty^{1,2}, Alexandra Basilakos², Leonardo Bonilha¹, Chris Rorden², Brielle Stark², Julius Fridriksson²; ¹Medical University of South Carolina, ²University of South Carolina

Meaning: Combinatorial Semantics

B47 Different high-level language regions integrate information over the same time-window Idan Blank¹, Evelina Fedorenko²; ¹MIT, ²Massachusetts General Hospital

B48 If so many are “few”, how few are “many”? Intact semantic learning but failure to generalize in bvFTD patients with frontal atrophy Stefan Heim^{1,2}, Corey McMillan³, Kylie Ternes³, Murray Grossman³; ¹RWTH Aachen University, Germany, ²Research Centre Jülich, Germany, ³University of Pennsylvania Perelman School of Medicine, USA

B49 Fine-Grained Semantic Coding in White Matter Connections Yuxing Fang¹, Xiaosha Wang¹, Zaixu Cui¹, Zaizhu Han¹, Yanchao Bi¹; ¹Beijing Normal University

B50 Hippocampal engagement in online, high-level linguistic processing Idan Blank¹, Melissa C. Duff², Sarah Brown-Schmidt³, Evelina Fedorenko⁴; ¹MIT, ²University of Iowa, ³University of Illinois, ⁴Massachusetts General Hospital

Meaning: Discourse and Pragmatics

B51 Neuropragmatic Speech-Language Deficits Specific To Speech Act Type Following Left-Hemispheric Lesion Friedemann Pulvermüller^{1,2}, Felix Dreyer¹, Guglielmo Lucchese¹, Saskia Millrose¹, Lena Meissner¹, Valerie Keller^{1,2}, Bettina Mohr³, Benjamin Stahl¹; ¹Brain Language Laboratory, Freie Universität Berlin, Germany, ²Berlin School of Mind and Brain, Humboldt Universität zu Berlin, Germany, ³Charité Universitätsmedizin, Campus Benjamin Franklin, Berlin, Germany

B52 Knowing vs. thinking: does factivity matter for event structure processing? Einat Shetreet^{1,2}, Jacopo Romoli³, Gennaro Chierchia⁴, Gina Kuperberg^{2,5}; ¹Tel Aviv University, ²Tufts University, ³Ulster University, ⁴Harvard University, ⁵Massachusetts General Hospital

B53 A neural oscillatory signature of reference Mante Nieuwland¹, Andrea Martin¹; ¹University of Edinburgh

Perception: Orthographic and Other Visual Processes

B54 Processing of lexical category and argument structure information in deverbal adjectives: An MEG study on Greek Kyriaki Neophytou¹, Christina Manouilidou², Linnaea Stockall³, Alec Marantz^{1,4}; ¹New York University Abu Dhabi, ²University of Patras, ³Queen Mary University of London, ⁴New York University

B55 Comparing and validating methods of reading instruction using behavioural and neural findings in an artificial orthography J S H Taylor¹, Matthew H Davis², Kathleen Rastle¹; ¹Royal Holloway University of London, ²Medical Research Council Cognition and Brain Sciences Unit

B56 Context- and knowledge-based predictions in visual word recognition: A MEG study investigating the interaction of pseudoword familiarization and repetition Susanne Eisenhauer¹, Benjamin Gagl^{1,2}, Christian J. Fiebach^{1,2}; ¹Department of Psychology, Goethe University, Frankfurt am Main, Germany, ²IDEA Center for Individual Development and Adaptive Education, Frankfurt am Main, Germany

B57 Visual information aids statistical and rule-based learning of syllable triplets: evidence from ERPs Kateřina Chládková¹, Andreea Geambașu², Paola Escudero³; ¹University of Leipzig, Germany, ²Leiden University, the Netherlands, ³Western Sydney University, Australia

Language Disorders

B58 Listen-In: The development and testing of a tablet-based therapy application for patients with impaired speech comprehension caused by stroke. Phase 1: Development and consultation. Sonia Brownsett¹, Victoria Fleming¹, Jennifer Crinion¹, David Howard², Rupert Leech¹, Yean Ong¹, Holly Robson³, Alexander Leff¹; ¹University College London, ²University of Newcastle upon Tyne, ³University of Reading

Phonology and Phonological Working Memory

B59 Neural development of phonological working memory from childhood to adulthood Zhenghan Qi¹, Yoel Sanchez¹, Carlo de los Angeles¹, Calvin Goetz¹, Michelle Han¹, Adrianne Harrison², Lisa Wisman Wei², Kelly Halverson¹, Tyler K. Perrachione², Kenneth Wexler¹, Helen Tager-Flusberg², John D. E. Gabrieli¹; ¹Massachusetts Institute of Technology, ²Boston University

B60 Sequential encoding of acoustic features in EEG responses to continuous speech Bahar Khalighinejad¹, Guilherme Cruzatto da Silva¹, Nima Mesgarani¹; ¹Columbia University

Signed Language and Gesture

B61 How do signers process spatial anaphora? – An ERP analysis of German Sign Language Anne Wienholz¹, Derya Nuhbalaoglu¹, Nivedita Mani¹, Markus Steinbach¹; ¹Georg-August-University Goettingen

B62 Neural correlates of variation among lexical items in British Sign Language: a parametric fMRI study David Vinson¹, Neil Fox¹, Pamela Perniss², Gabriella Vigliocco¹; ¹University College London, ²University of Brighton

Speech Motor Control and Sensorimotor Integration

B63 Sensorimotor differences between stuttering and non-stuttering adults before and during fluent speech production recorded in EEG mu rhythms. Tim Saltuklaroglu¹, Ashley Harkrider¹, David Jenson¹, David Thornton¹, Tiffani Kittilstved¹, Andrew Bowers²; ¹University of Tennessee Health Sciences Center, Department of Audiology and Speech-Language Pathology, ²University of Arkansas, Department of Communication Disorders

B64 Motor abilities in people who stutter: Impaired visuomotor adaptation and abnormal response timing Emily L. Connally¹, Muriel T. N. Panouillères¹, Kate E. Watkins¹; ¹Department of Experimental Psychology, University of Oxford, UK

B65 Assessing error detection and correction abilities in patients with aphasia: MEG and behavioral evidence Caroline Nizioletk¹, Swathi Kiran¹; ¹Boston University

B66 Inner Speech with your own or someone else's voice. Cerebral correlates assessed with fMRI Romain Grandchamp^{1,2}, Lucile Rapin³, Loevenbruck Hélène^{1,2}, Perrone-Bertolotti Marcela^{1,2}, Cédric Pichat^{1,2}, Jean-Philippe Lachaux⁴, Monica Baciú^{1,2}; ¹Univ. Grenoble Alpes, LPNC, F-38040 Grenoble, France, ²CNRS, LPNC UMR 5105, F-38040 Grenoble, France, ³Douglas Mental Health University Institute, Department of Psychiatry, McGill University, Montreal, Canada, ⁴Centre de Recherche en Neurosciences de Lyon, INSERM U1028 - CNRS UMR5292, Lyon France

Control, Selection, and Executive Processes

B67 Language deficits induced by topiramate (TPM) administration Christopher Barkley¹, Angela Birnbaum¹, Mingzhou Ding², Serguei Pakhomov¹, Lynn Eberly¹, Chao Wang², Susan Marino¹; ¹University of Minnesota, ²University of Florida

B68 Effects of varying cloze probability on prediction and integration during sentence processing Kate Pirog Revill¹; ¹Emory University

B69 The contribution of executive control to semantic cognition: Insights from semantic aphasia and dysexecutive syndrome Hannah Thompson¹, Azizah Almaghyuli¹, Krist Noonan², Ohr Barak³, Matthew Lambon Ralph⁴, Elizabeth Jefferies¹; ¹Department of Psychology and York Neuroimaging Centre, University of York, UK, ²Research Institute for the Care of Older People, Royal United Hospital, Bath, UK, ³Brain Injury Rehabilitation Trust (BIRT), York House, Heslington Road, York, UK, ⁴Neuroscience and Aphasia Research Unit, School of Psychological Sciences, University of Manchester, UK

Meaning: Prosody, Social and Emotional Processes

B70 Emotion and Spoken Language Generation Megan S Barker¹, Nicole N Nelson¹, Gail A Robinson¹; ¹School of Psychology, The University of Queensland

B71 Early ERPs reflect “inner voice” experience in silent reading of direct versus indirect speech quotations Bo Yao¹, Bing Cai¹, Jason R. Taylor¹; ¹School of Psychological Sciences, University of Manchester, United Kingdom

Methods

B72 A novel neurolinguistic corpus of spontaneous speech production and concurrent electrocorticographic data Bella Diekmann^{1,3,4,5}, Olga Iljina^{1,3,4,5}, Pia Wiest^{1,3,4,5}, Andreas Schulze-Bonhage^{1,2}, Peter Auer^{3,4,5}, Tonio Ball^{1,2}; ¹Department of Neurosurgery, Epilepsy Center, University Medical Center Freiburg, Freiburg, Germany, ²Bernstein Center Freiburg, University of Freiburg, Freiburg, Germany, ³GRK 1624, University of Freiburg, Freiburg, Germany, ⁴Department of German Linguistics, University of Freiburg, Freiburg, Germany, ⁵Hermann Paul School of Linguistics, University of Freiburg, Freiburg, Germany

B73 Confound and control in language experiments Phillip M. Alday¹, Jona Sassenhagen²; ¹University of South Australia, ²Goethe University Frankfurt

Writing and Spelling

B74 Learning to Read Alters Intrinsic Cortico-Subcortical Cross-Talk in the Low-Level Visual System Falk Huettig¹, Uttam Kumar², Ramesh Mishra³, Viveka Nand Tripathi⁴, Anupam Guleria², Jay Prakash Singh⁴, Frank Eisner⁵, Michael Skeide⁶; ¹Max Planck Institute for Psycholinguistics, ²CMBR Lucknow, ³University of Hyderabad, ⁴University of Allahabad, ⁵Radboud University, ⁶Max Planck Institute for Human Cognitive and Brain Sciences

Poster Session C

Perception: Auditory

C1 Cortical encoding of speech intonation on human superior temporal gyrus Claire Tang¹, Liberty S. Hamilton¹, Edward F. Chang¹; ¹University of California, San Francisco

C2 Online Modulation of Neural Pitch Encoding in Tone Language Speakers at Subcortical Levels Joseph CY Lau¹, Patrick CM Wong¹, Bharath Chandrasekaran²; ¹The Chinese University of Hong Kong, ²The University of Texas at Austin

C3 Encoding and Organization of Phonemes by Feature in STG Jessica L. Mow¹, Laura E. Gwilliams², Bahar Khalighinejad³, Nima Mesgaran³, Alec Marantz^{1,2}; ¹New York University Abu Dhabi, ²New York University, ³Columbia University

C4 Effects of Speaker and Listener Accent on Speech Perception Measured by Cortical Auditory Evoked Potentials Emma Brint¹, Paul Iverson¹, Petra Hödl²; ¹University College London, ²University of Graz

Perception: Speech Perception and Audiovisual Integration

C5 Auditory Bubbles: A tool for measuring perceptual and neural representations of speech acoustics Jonathan Venezia¹, Borja Sánchez¹, Jack Payne¹, Virginia Richards¹, Gregory Hickok¹; ¹University of California, Irvine

C6 Timing predictions in speech can be based on phoneme- or word-onset Mathias Scharinger^{1,2}, Johanna Steinberg², Alexandra Bendixen³; ¹Department of Language and Literature, Max Planck Institute for Empirical Aesthetics, Frankfurt, ²BioCog - Cognitive incl. Biological Psychology, Department of Psychology, Leipzig University, ³School of Natural Sciences, Technische Universität Chemnitz, Chemnitz, Germany

C7 Multi-level representations in speech processing in brain and machine: Evidence from EMEG and RSA Cai Wingfield¹, Li Su², Barry Devereux¹, Xunying Liu³, Chao Zhang³, Phil Woodland³, Elisabeth Fonteneau¹, Andrew Thwaites¹, William Marslen-Willson^{1,4}; ¹Department of Psychology, University of Cambridge, ²Department of Psychiatry, University of Cambridge, ³Department of Engineering, University of Cambridge, ⁴MRC Cognition and Brain Sciences Unit, Cambridge

C8 Intracranial recordings reveal modulation of high gamma activity in primary auditory cortex during speech pop-out Alexander J. Billig¹, Ariane E. Rhone², Phillip E. Gander², Kirill V. Nourski², Conor J. Wild¹, Matthew A. Howard III², Ingrid S. Johnsrude¹; ¹The University of Western Ontario, ²The University of Iowa

C9 Interactions between oscillatory power in fronto-parietal regions and prosodic entrainment in auditory areas Anne Keitel¹, Joachim Gross¹, Christoph Kayser¹; ¹University of Glasgow

C10 MEG oscillation of auditory mismatch responses to changes in phonemes and f0 contours Chun-Hsien Hsu¹, En-Ju Lin¹, Chia-Ying Lee¹; ¹Institute of Linguistics, Academia Sinica, Taiwan

C11 How language experiences influence the cognitive and neural oscillatory mechanisms of predictive language processing Xiaoqing Li¹, Xiaohong Yang¹, Guiqin Ren²; ¹Key Laboratory of Behavioral Science, Institute of Psychology, Chinese Academy of Sciences, ²Research Center of Psychological Development and Education, Liaoning Normal University

Multilingualism

C12 Tracking syntactic conflict between languages over the course of L2 acquisition: A cross-sectional ERP study Anne Mican¹, Kristin Lemhöfer¹; ¹Radboud University, Donders Institute for Brain, Cognition, and Behaviour

C13 The role of uncertainty in electrophysiological correlates of error detection and feedback processing during second language learning Sybrine Bultena¹, Claudia Danielmeier^{1,2}, Harold Bekkering¹, Kristin Lemhöfer¹; ¹Radboud University Nijmegen, Donders Institute for Brain, Cognition and Behaviour, ²University of Nottingham

C14 The linguistic relativity of time Yang LI¹, Guillaume Thierry¹; ¹School of Psychology, Bangor University

C15 Early classroom-based foreign language learning in children: vocabulary gains despite unchanged neural sensitivities in auditory MMN and visual word N1 Urs Maurer^{1,2}, Simone E. Pfenninger², Aleksandra Eberhard-Moscicka², Lea Jost²; ¹The Chinese University of Hong Kong, ²University of Zurich

C16 Immersive late bilingualism reshapes the core of the brain Christos Pliatsikas¹, Elisavet Moschopoulou², James Douglas Saddy¹; ¹Department of Clinical Language Sciences, School of Psychology & Clinical Language Sciences, University of Reading, RG6 6AL Reading, UK., ²Department of Psychology, School of Psychology & Clinical Language Sciences, University of Reading, RG6 6AL, Reading, UK.

C17 Neural Correlates of Language Therapy Effects in a Bilingual with Nonfluent Aphasia Katy Borodkin¹, Richard J Binney², Jamie Reilly², Lia Pazuelo³, Aviva Yvonne Mielle Lerman³, Amy Vogel Eyny³, Mira Goral^{3,4}; ¹Department of Communication Disorders, Sackler Faculty of Medicine, Tel Aviv University, Israel, ²Communication Sciences and Disorders, Temple University, Philadelphia, ³Speech-Language-Hearing Sciences, The Graduate Center, The City University of New York, New York, ⁴Speech-Language-Hearing Sciences, Lehman College, The City University of New York, New York

Meaning: Lexical Semantics

C18 The Representation of Taxonomic and Thematic Knowledge in the Human Brain Yangwen Xu¹, Jiahong Gao², Weiwei Men², Yanchao Bi¹; ¹Beijing Normal University, ²Peking University

C19 Serving two Masters: Electrophysiological Evidence for Parallel Idiom Processing Ruth Kessler¹, Andrea Weber¹, Claudia Friedrich¹; ¹Eberhard Karls University of Tuebingen

C20 Working memory, not language experience, predicts N400 effects to semantically anomalous words during reading Darren Tanner¹, Nyssa Z. Bulkes¹, Kailen Shantz¹, Andrew Armstrong¹, Amalia Reyes¹; ¹University of Illinois at Urbana-Champaign

C21 The role of the left and right anterior temporal lobes in pictures and names semantic processing Max Wilson¹, Georges Chedid², Jean-Sebastien Provost², Isabelle Rouleau³, Sven Joubert², Simona Maria Brambati²; ¹Centre de Recherche de l'Institut Universitaire en Santé Mentale de Québec and Département de réadaptation, Université Laval, Québec City, Canada, ²Centre de recherche de l'Institut universitaire de gériatrie de Montréal and Département de psychologie, Université de Montréal, Québec, Canada, ³Département de psychologie, Université du Québec à Montréal (UQAM), Québec, Canada

C22 The influence of semantic associations on sentence production in schizophrenia: An fMRI study Maike Creyaufmueller^{1,2}, Stefan Heim^{1,2,3}, Katharina Sass^{1,2}, Ute Habel^{1,2}, Juliane Muehlhaus^{1,2,4,5}; ¹Uniklinik RWTH Aachen, Aachen, Germany, ²JARA Translational Brain Medicine, ³Research Centre Jülich, Jülich, Germany, ⁴Hochschule für Gesundheit, Bochum, Germany, ⁵TU Dortmund University, Dortmund, Germany

C23 ERP responses to (un)expected spatial and non-spatial prepositional phrases Emily Zane^{1,2}, Sandeep Prasada^{2,3}, Valerie Shafer²; ¹Emerson College, ²Graduate Center (CUNY), ³Hunter College (CUNY)

C24 Expect the unexpected: Speaker reliability shapes online lexical anticipation Trevor Brothers^{1,2}, Shruti Dave^{1,2}, Liv J. Hoversten^{1,2}, Matthew J. Traxler^{1,2}, Tamara Y. Swaab^{1,2}; ¹University of California, Davis, ²Center for Mind and Brain

C25 Processing enhancement for conventional metaphors following stimulation of Broca's area Ekaterini Klepousniotou¹, Eleanor Boardman¹, Alison Allsopp¹, Daniel J Martindale¹; ¹University of Leeds

C26 The neuromagnetic time-course of semantic ambiguity resolution in speech comprehension Lucy J MacGregor¹, Jennifer M Rodd², Olaf Hauk¹, Matthew H Davis¹; ¹MRC Cognition and Brain Sciences Unit, ²University College London

C27 Left primary motor cortex stimulation affects language comprehension during semantic judgment but not lexical decision task: an online rTMS study of action vs. abstract word processing Nikola Vukovic^{1,2}, Matteo Feurra², Anna Shpektor², Andriy Myachykov^{2,3}, Yury Shtyrov^{1,2}; ¹Center of Functionally Integrative Neuroscience, Institute for Clinical Medicine, Aarhus University, Denmark, ²Center for Cognition and Decision Making, Higher School of Economics, Moscow, Russia, ³Department of Psychology, Northumbria University, Newcastle upon Tyne, UK

Language Development

C28 Changes in cortical functional and structural organization related to the development of language production skills Imogen Large¹, Jennie Deignan¹, Fred Dick¹; ¹Birkbeck College, University of London

C29 Age-related N400 delay and reduction during Chinese sentence comprehension Zude Zhu¹, Nannan Xu, Beibei Zhao, Xiaopu Hou; ¹Collaborative Innovation Center for Language Competence, and School of Linguistics and Arts, Jiangsu Normal University, China, 221009

C30 Large-scale functional network differences between children and adults during reading Liu lanfang¹, Wang Zhengke², Wei Na¹, Meng Xiangzhi², Ding Guosheng¹; ¹State Key Laboratory of Cognitive Neuroscience and Learning, Beijing Normal University, Beijing, 100875, P.R. China, ²Department of psychology and Beijing Key Laboratory of Behavior and Mental Health, Peking University, Beijing, 100871, P.R. China

C31 The cerebellum's relationship to language function Carolina Vias¹, Jairo Munoz¹, Jefferson Salan¹, Sophia Tchir¹, German Lopez¹, Ania Suros¹, Matteo Grudny¹, Ana Solodkin², Steven L. Small², Anthony Steven Dick¹; ¹Florida International University, ²University of California, Irvine

C32 Developmental Changes of the Functional Near Infrared Spectroscopy (fNIRS) Network Architecture in Emerging Readers Lan Shuai¹, Kaja Jasinska¹, Airey Lau^{1,2}, Tao Gong¹, Hailey Mulder¹, Nicole Landi^{1,3,4}, Ken Pugh^{1,3,4}; ¹Haskins Laboratories, ²Columbia University Teachers College, ³Yale University Child Study Center, ⁴University of Connecticut

Grammar: Syntax

C33 Neural Bases of Chinese Syntactic Representation across both Tasks and Syntactic Constructions

Wenjia Zhang^{1,2}, Gangyi Feng^{1,2}, Hsuan-Chih Chen³, Xuefei Gao⁴, Suiping Wang^{1,2}; ¹Center for Studies of Psychological Application and School of Psychology, South China Normal University, Guangzhou, China, ²Key Laboratory of Mental Health and Cognitive Science of Guangdong Province, South China Normal University, Guangzhou, China, ³Department of Psychology, Chinese University of Hong Kong, Hong Kong, ⁴Max Planck Institute for Psycholinguistics, Nijmegen, The Netherlands

C34 Automatic detection of morpho-syntactic violations in Dutch: A Mismatch Negativity study

Cas Coopmans¹, Marijn Struikma¹, Peter Coopmans¹, Aoju Chen¹; ¹Utrecht University

C35 Probability, Semantics, Syntax, Memory: Within Subject Comparisons of Late Positive Components

Michelle Leckey¹, Ryan J. Hubbard¹, Kara D. Federmeier¹; ¹University of Illinois at Urbana-Champaign

C36 Left inferior frontal cortex mediates morphosyntactic processing: ERP evidence from left-hemisphere damaged patients

Stefanie Regel^{1,2}, Sonja Kotz^{1,3}, Ilona Henseler¹, Angela Friederici¹; ¹Max-Planck-Institute for Human Cognitive and Brain Sciences, Leipzig, Germany, ²Humboldt University Berlin, Berlin, Germany, ³Maastricht University, Maastricht, The Netherlands

C37 ERP Effects of Scrambled/'Floating' Numeral Classifiers in Korean

Myung-Kwan Park¹, Euiyon Cho¹, Jeong-Ah Shin¹, Wonil Chung¹; ¹Dongguk University

C38 Voice mismatch in Korean pseudo-sluicing: An ERP study

Myung-Kwan Park¹, Euiyon Cho¹, Jeong-Ah Shin¹, Wonil Chung¹; ¹Dongguk University

Language Disorders

C39 Interfered naming and its improvement in aphasia: A group fMRI study on a novel approach to impaired word processing

Stefanie Abel^{1,2}, Klaus Willmes²; ¹Neuroscience and Aphasia Research Unit, University of Manchester, UK, ²Department of Neurology, RWTH Aachen University, Germany

C40 Predicting speech entrainment success using white matter connectivity

Lynda Feenaughty^{1,2}, John Delgaizo¹, Alexandra Basilakos², Julius Fridriksson², Chris Rorden², Leonardo Bonilha¹; ¹Medical University of South Carolina, ²University of South Carolina

C41 A DTI study of speech-related white matter tracts in patients with left-hemisphere stroke

Chiara Caldinelli¹, Fatemah Geranmayeh², Richard J. S. Wise², Kate Watkins¹; ¹University of Oxford, ²Imperial College London

C42 Intra- and inter-category regions in semantic dementia: Evidence from anti-VLSM and representational similarity analyses

Junhua Ding¹, Keliang Chen², Yan Chen¹, Yuxing Fang¹, Qing Yang², Yingru Lv³, Nan Lin⁴, Yanchao Bi¹, Qihao Guo², Zaizhu Han¹; ¹State Key Laboratory of Cognitive Neuroscience and Learning & IDG/McGovern Institute for Brain Research, Beijing Normal University, ²Department of Neurology, Huashan Hospital, Fudan University, ³Department of Radiology, Huashan Hospital, Fudan University, ⁴Institute of Psychology, Chinese Academy of Sciences

C43 Lesion correlates of noun and verb processing in post-stroke aphasia: Voxel-Based Correlational Methodology

Reem S. W. Alyahya^{1,2}, Ajay Halai¹, Paul Conroy¹, Matthew Lambon Ralph¹; ¹Neuroscience and Aphasia Research Unit, The University of Manchester, United Kingdom, ²King Fahad Medical City, Saudi Arabia

C44 Longitudinal changes of resting state functional connectivity during naming recovery after stroke

Rajani Sebastian¹, Andreia V Faria², Hinna Shahid¹, Cameron Davis¹, Amy Wright¹, Argye E Hillis^{1,3,4}; ¹Department of Neurology, Johns Hopkins University School of Medicine, Baltimore, USA, ²Department of Radiology, Johns Hopkins University School of Medicine, Baltimore, USA, ³Department of Physical Medicine and Rehabilitation, Johns Hopkins University School of Medicine, Baltimore USA, ⁴Department of Cognitive Science, Johns Hopkins University, Baltimore, USA

C45 Association between language functional network and attenuated psychotic symptoms in clinical high-risk psychosis patients in Shanghai

Zhenghan Qi¹, Yingying Tang², Susan Whitfield-Gabrieli¹, Tianhong Zhang², Huiru Cui², Robert W. McCarley³, Martha E. Shenton³, Huijun Li⁴, Jijun Wang², Larry J. Seidman³; ¹Massachusetts Institute of Technology, ²Shanghai Mental Health Center, Shanghai Jiaotong University School of Medicine, ³Harvard Medical School, ⁴Florida Agricultural and Mechanical University

C46 Language brain networks in anomic versus non-anomic early Alzheimer's disease patients

Maxime Montembeault^{1,2}, Isabelle Rouleau³, Marianne Chapleau^{1,2}, Simona Maria Brambati^{1,2}; ¹Université de Montréal, ²Centre de recherche de l'Institut universitaire de gériatrie de Montréal, ³Université du Québec à Montréal

C47 Abnormal semantic processing of emotional and neutral words in post traumatic stress disorder

Einat Liebenthal¹, Hong Pan¹, Swathi Iyer¹, Monica Bennett¹, Benjamin Coiner¹, Daniel Weisholtz¹, David Silbersweig¹, Emily Stern¹; ¹Brigham and Women's Hospital, Harvard Medical School

C48 Using fMRI to predict post-stroke aphasia recovery

Tracy Roxbury^{1,2,5}, Katie McMahon², Stephen Read⁴, Robert Henderson⁴, Andrew Wong⁴, Alan Coulthard^{3,4}, Kate O'Brien¹, Anna Farrell⁴, Penni Burfein⁴, Shana Taubert⁴, Christine McHenry⁴, David Copland^{1,5}; ¹Centre for Clinical Research, University of Queensland, ²Centre for Advanced Imaging, University of Queensland, ³Academic Discipline of Medical Imaging, University of Queensland, ⁴Royal Brisbane and Women's Hospital, ⁵School of Health and Rehabilitation Sciences, University of Queensland

Meaning: Combinatorial Semantics

C49 Quantifier Polarity Processing and Numerical Comparison: fMRI results show striking Modularity *Yosef Grodzinsky¹, Galit Agmon¹, Isabelle Deschamps²; ¹ELSC, LLC, Hebrew University, Jerusalem, ²Faculté de Médecine Département de réadaptation, Université Laval*

C50 Less is more: negative polarity in quantifiers is more difficult to process than negative polarity in adjectives *Galit Agmon¹, Yonatan Loewenstein¹, Yosef Grodzinsky¹; ¹The Hebrew University of Jerusalem*

C51 Compositionality and imagination: Assessing the neuronal correlates of indeterminate sentence interpretation *Roberto G. de Almeida¹; ¹Concordia University*

C52 Lexical access feeds composition: Temporal modulation of combinatory LATL activity according to lexical access demands *Graham Flick¹, Amanda R. Kaczmarek², Yohei Oseki³, Alec Marantz^{1,3}, Liina Pyllkkänen^{1,3}; ¹New York University Abu Dhabi, ²University of California, Santa Barbara, ³New York University*

Meaning: Discourse and Pragmatics

C53 The brain dissociates between different levels of prediction during language comprehension *Edward W. Wlotko¹, Margarita Zeitlin¹, Simone Riley¹, Maria Luiza Cunha Lima¹, Gina Kuperberg^{1,2,3}; ¹Tufts University, ²Massachusetts General Hospital, ³Harvard Medical School*

C54 The neural difference between Chinese and English in reading and listening stories *Mengxing Liu¹, Xiaojuan Wang¹, Hua Shu², Jason D. Zevin³, Jianfeng Yang¹; ¹Shaanxi Normal University, ²Beijing Normal University, ³University of Southern California*

C55 Processing affirmation and negation in contexts with unique or multiple alternatives *Maria Spychalska^{1,2,3}, Viviana Haase^{1,2}, Jarmo Kontinen^{1,2}, Markus Werning^{1,2}; ¹Institute of Philosophy II, Ruhr University Bochum, ²Mercator Research Group "Structure of Memory", ³Institute for German Language and Literature, University Cologne*

Perception: Orthographic and Other Visual Processes

C56 Left inferior longitudinal fasciculus underlies orthographic processing: Evidence from lesion-behavior mapping analysis *Ke Wang¹, Xiaonan Li¹, Luping Song², Ruiwang Huang², Junhua Ding¹, Yanchao Bi¹, Zaizhu Han¹; ¹State Key Laboratory of Cognitive Neuroscience and Learning and IDG/McGovern Institute for Brain Research, Beijing Normal University, Beijing 100875, China, ²Department of Neurology, China Rehabilitation Research Center, Rehabilitation College of Capital Medical University, Beijing 100068, China*

C57 To gaze – to see – to read: Brain activity beyond orthographic processing *Stefan Heim^{1,2}, Franziska von Tongeln¹, Rebekka Hillen¹, Ralph Radach³, Thomas Günther¹; ¹RWTH Aachen University, Germany, ²Research Centre Jülich, Germany, ³University of Wuppertal, Germany*

C58 Training-induced changes in the neural mechanisms underlying visual word recognition *Sophia van Hees^{1,2}, Penny Pexman^{1,2}, Bijan Mohammed¹, Sage Brown¹, Andrea Protzner^{1,2}; ¹University of Calgary, ²Hotchkiss Brain Institute*

Phonology and Phonological Working Memory

C59 Foreign sound learning and mismatch negativity (MMN): a longitudinal ERP study *Andreas Højlund Nielsen^{1,2,3}, Nynne Thorup Horn³, Stine Derau Sørensen³, William B. McGregor³, Mikkel Wallentin^{1,2,3}; ¹Center of Functionally Integrative Neuroscience (CFIN), Aarhus University, ²Interacting Minds Center, Aarhus University, ³Dept. of Linguistics, Cognitive Science and Semiotics, Aarhus University*

C60 Subcortical involvement in phonological input processing: an electrophysiological registration study *Arnout Bruggeman¹, Kim De Keyser¹, Annelies Aerts¹, Pieter Van Mierlo¹, Gregor Strobbe¹, Paul Boon¹, Dirk Van Roost¹, Patrick Santens¹, Miet De Letter¹; ¹Ghent University*

Signed Language and Gesture

C61 Co-Activation of American Sign Language in Deaf Readers: An ERP Study *Gabriela Meade^{1,2}, Katherine Midgley¹, Phillip Holcomb¹, Karen Emmorey¹; ¹San Diego State University, ²University of California, San Diego*

C62 How are individual spoken words and signs represented in sign-speech bilinguals? *Samuel Evans¹, Jörn Diedrichsen², Mairéad MacSweeney¹; ¹Institute of Cognitive Neuroscience, University College London, ²Brain and Mind Institute, University of Western Ontario*

Speech Motor Control and Sensorimotor Integration

C63 Using Acoustic Measures to Refine the Differential Diagnosis of Apraxia of Speech: A Behavioral and Multimodality Neuroimaging Study *Alexandra Basilakos¹, Leonardo Bonilha², Grigori Yourganov², Chris Rorden¹, Lynda Feenaughty¹, Dirk den Ouden¹, Daniel Fogerty¹, Julius Fridriksson¹; ¹University of South Carolina, ²Medical University of South Carolina*

C64 Cortical representation of vocal pitch production *Benjamin Dichter^{1,2}, Matthew Leonard¹, Edward Chang¹; ¹University of California San Francisco, ²University of California Berkeley*

C65 Investigating the role of auditory feedback in the production of speech and non-speech vocal behaviours *Zarinah Agnew¹, Hardik Kothare², Srikanth Nagarajan³, John Houde⁴; ¹UCSF*

Control, Selection, and Executive Processes

C66 Age-related changes in differentiated neural responses to resolution of conflict in magnitude system *Chih-Mao Huang^{1,2}, Ya-Yi Wang², Hsu-Wen Huang^{1,2}; ¹National Chiao Tung University, Taiwan, ²Institute of Linguistics, Academia Sinica, Taiwan*

C67 An early locus of associative and categorical context effects in speech production: Evidence from an ERP study using the picture-word interference paradigm Andus Wing-Kuen Wong¹, Ho-Ching Chiu¹, Siu-San Wong¹, Jie Wang², Jinlu Cao², Hsuan-Chih Chen²; ¹Department of Applied Social Sciences, City University of Hong Kong, Hong Kong S. A. R., ²Department of Psychology, Chinese University of Hong Kong, Hong Kong S. A. R.

C68 Control of Language Production: The Influence of Strategy Provision on Verbal Suppression and its Neural Substrates in Parkinson's Disease Megan L Isaacs^{1,2,3,5}, Katie L McMahon², Anthony J Angwin³, Bruce Crosson⁴, Peter A Silburn⁵, David A Copland^{1,3}; ¹Centre for Clinical Research, University of Queensland, Herston, Australia, ²Centre for Advanced Imaging, University of Queensland, St Lucia, Australia, ³School of Health and Rehabilitation Sciences, University of Queensland, St Lucia, Australia, ⁴Centre for Visual and Neurocognitive Rehabilitation, Veteran's Affairs Medical Centre, Atlanta, ⁵APCN, QBI, University of Queensland, Brisbane, Australia

Meaning: Prosody, Social and Emotional Processes

C69 Metaphor in Politics: Bringing affect to the decision space? Vesna Gamez-Djokic^{1,2}, Elisabeth Wehling⁴, Lisa Aziz-Zadeh^{1,2,3}; ¹Brain and Creativity Institute, University of Southern California, ²Neuroscience Graduate Program, ³Division of Occupational Science and Occupational Therapy, University of Southern California, ⁴International Computer Science Institute, University of California, Berkeley

Methods

C70 Estimating aphasia scores with SMAP: stacked multimodal aphasia predictions Dorian Pustina^{1,3}, Branch Coslett¹, Brian Avants^{2,3}, Myrna Schwartz⁴; ¹Department of Neurology, University of Pennsylvania, Philadelphia, PA, USA, ²Department of Radiology, University of Pennsylvania, Philadelphia, PA, USA, ³Penn Image Computing and Science Lab, University of Pennsylvania, Philadelphia, PA, USA, ⁴Moss Rehabilitation Research Institute, Elkins Park, PA, USA.

Writing and Spelling

C71 The functional relationship between language and motor processing in typing: An EEG study Svetlana Pinet^{1,3}, Michele Scaltritti^{1,3}, Marieke Longcamp^{2,3}, F.-Xavier Alario^{1,3}; ¹LPC UMR 7290, ²LNC UMR 7291, ³Aix-Marseille Université & CNRS, France

Poster Session D

Perception: Auditory

D1 Predictive coding is key for early sensory language processing in both auditory and visual modalities Benjamin Gagl^{1,2}, Jona Sassenhagen¹, Christian J. Fiebach^{1,2}; ¹Department of Psychology, Goethe-University Frankfurt, Frankfurt am Main, ²Center for Individual Development and Adaptive Education of Children at Risk (IDEA), Frankfurt am Main

D2 Neural entrainment reflects temporal predictions guiding speech comprehension Anne Kösem^{1,2}, Hans Rutger Bosker^{1,2}, Antje Meyer^{1,2}, Ole Jensen², Peter Hagoort^{1,2}; ¹Donders Institute for Brain, Cognition, and Behaviour, Radboud University, The Netherlands, ²Max Planck Institute for Psycholinguistics, Nijmegen, The Netherlands

D3 The relationship between speech production and speech perception deficits in Parkinson's disease Kim De Keyser¹, Patrick Santens¹, Annelies Bockstael¹, Dick Botteldooren¹, Durk Talsma¹, Paul Corthals¹, Miet De Letter¹; ¹Ghent University

D4 Cortical-acoustic alignment in cochlear implant users: is it an artifact or a measure of speech processing? Anita Wagner^{1,2}, Natasha Maurits^{2,3}, Deniz Başkent^{1,2}; ¹University of Groningen, University Medical Centre Groningen Department of Otorhinolaryngology/Head and Neck Surgery Groningen, The Netherlands, ²Graduate School of Medical Sciences, School of Behavioral and Cognitive Neuroscience, University of Groningen, ³University of Groningen, University Medical Centre Groningen Department of Neurology Groningen, The Netherlands

Perception: Speech Perception and Audiovisual Integration

D5 The role of ventral and dorsal pathway in sublexical speech perception: insights from fMRI Susann Bräuer^{1,2}, Inga M. Schepers^{1,2}, Gesa Müller¹, Jochem W. Rieger^{1,2}; ¹University of Oldenburg, Germany, ²Cluster of Excellence Hearing4all, Germany

D6 Pure Linguistic Interference during Comprehension of Competing Speech Signals Bohan Dai¹, Anne Kösem², James McQueen^{2,1}, Peter Hagoort^{1,2}; ¹Max Planck Institute for Psycholinguistics, 6500 AH Nijmegen, The Netherlands, ²Donders Institute for Brain, Cognition and Behaviour, Radboud University, 6500 HB Nijmegen, The Netherlands

D7 A brain potential signalling linguistic pre-activation? An analysis of the pre-activation negativity (PrAN) Pelle Soderstrom¹, Merle Horne¹, Johan Frid¹, Mikael Roll¹; ¹Lund University

D8 On the role of low-frequency neural entrainment to acoustic envelopes during phonological and semantic processing of speech Guangting Mai¹, James W. Minett², William S.-Y. Wang^{2,3}; ¹University College London, ²The Chinese University of Hong Kong, ³The Hong Kong Polytechnic University

D9 Lexical and lip-reading information as sources of phonemic boundary recalibration Shruti Ullas¹, Frank Eisner², Anne Cutler³, Elia Formisano¹; ¹Maastricht University, ²Donders Institute for Brain, Cognition and Behaviour at Radboud University, ³Max Planck Institute for Psycholinguistics

D10 Laterality and unilateral deafness: Patients with congenital right ear deafness do not develop atypical language dominance Lise Van der Haegen¹, Frederic Acke², Guy Vingerhoets¹, Ingeborg Dhooge², Els De Leenheer², Qing Cai³, Marc Brysbaert¹; ¹Ghent University, Belgium, ²Ghent University Hospital, Belgium, ³East China Normal University, China

D11 How early does linguistic processing start and where in the brain? Andrew Papanicolaou^{1,2}; ¹University of Tennessee Health Science Center, Memphis, USA, ²Neuroscience Institute, Le Bonheur Children's Hospital, Memphis, USA

Multilingualism

D12 Neural Network Modelling of Lexical Development in Bilingual Toddlers

Themis Karaminis¹, Jeremy Goslin¹, Caroline Floccia¹, Kim Plunkett²; ¹School of Psychology, Plymouth University, ²Department of Experimental Psychology, University of Oxford

D13 Contextualizing Treatment Outcomes in a Bilingual-Speaker with Anomia by Examining Gray Matter Volume and Functional Connectivity

Stephanie Grasso¹, H. Isabel Hubbard², Maria Luisa Mandelli², Elizabeth Peña¹, Maria Luisa Gorno-Tempini², Maya Henry¹; ¹The University of Texas at Austin, ²The University of California, San Francisco

D14 Proactive and reactive control during bilingual lexical access is driven by different portions within the prefrontal cortex

Francesca Martina Branzi^{1,2}, Clara Martin^{2,3}, Manuel Carreiras^{2,3}, Pedro Paz-Alonso²; ¹The University of Manchester, ²Basque Center on Cognition, Brain and Language, ³IKERBASQUE, Basque Foundation for Science

Meaning: Lexical Semantics

D15 Mapping the multiple graded contributions of the anterior temporal lobe representational hub to abstract and social concepts: Evidence from distortion-corrected fMRI

Richard J. Binney^{1,2}, Paul Hoffman^{1,3}, Matthew A. Lambon Ralph¹; ¹University of Manchester, ²Temple University, ³University of Edinburgh

D16 Processing abstract concepts: The role of imageability and emotional valence

Gabriella Vigliocco¹, David Vinson¹, Marta Ponari², Tim Shallice³; ¹Experimental Psychology, UCL, ²Department of Psychology, Kent University, ³ICN, UCL

D17 The Good, the bad, and the neutral: The brain organizes abstract semantics primarily by valence

Wei Wu¹, Xiaosha Wang¹, Xiaoying Wang¹, Weiwei Men², Jiahong Gao², Zhenhua Ling³, Yanchao Bi¹; ¹Beijing Normal University, ²Peking University, ³University of Science and Technology of China

D18 Predicting neural activity patterns associated with sentences using a neurobiologically motivated model of semantic representation

Andrew Anderson¹, Jeffrey Binder², Leonardo Fernandino², Colin Humphries², Lisa Conant², Mario Aguilar³, Xixi Wang¹, Donias Doko¹, Rajeev Raizada¹; ¹Brain and Cognitive Sciences, University of Rochester, NY 14627, ²Medical College of Wisconsin, Department of Neurology, Milwaukee, WI 53226, ³Teledyne Scientific Company, Durham, NC 27703

D19 GABA concentrations in the anterior temporal lobe predict human semantic processing

JeYoung Jung¹, Stephen Williams², Matthew Lambon Ralph¹; ¹Neuroscience and Aphasia Research Unit (NARU), School of Psychological Sciences, University of Manchester, UK, ²Center for Imaging Sciences, University of Manchester, UK

D20 tDCS to Premotor Cortex Changes Action Verb Understanding: Complementary Effects of Inhibitory and Excitatory Stimulation

Tom Gijssels^{1,2}, Daniel Casasanto^{1,3}; ¹University of Chicago, IL, ²Vrije Universiteit Brussel, Belgium, ³Grossman Institute for Neuroscience, IL

D21 Neural decoding reveals differences between concrete and abstract words

Annika Hulten¹, Ali Faisal¹, Lotta Lammi¹, Marijn van Vliet¹, Tiina Lindh-Knuuttila¹, Sasa Kivisaari¹, Riitta Salmelin¹; ¹Aalto University

D22 Individual differences in sentence processing based on handedness and family sinistrality in left- and right-handers

Franziska Kretzschmar¹, Ingmar Brilmayer¹, Phillip M. Alday², Ina Bornkessel-Schlesewsky², Matthias Schlesewsky²; ¹Johannes Gutenberg University Mainz, Mainz, Germany, ²University of South Australia, Adelaide, Australia

D23 An Experiential Attribute Model of Semantic Representation Predicts Semantic Priming

Leonardo Fernandino¹, Colin Humphries¹, Lisa Conant¹, Jeffrey Binder¹; ¹Medical College of Wisconsin

Language Development

D24 Influence of early language experience on brain activation to language: A study of hearing infants with Deaf mothers

Evelyne Mercure¹, Sarah Lloyd-Fox², Mark Johnson², Mairead MacSweeney¹; ¹UCL Institute of Cognitive Neuroscience, ²Birkbeck College, University of London

D25 Connectivity of the hippocampus and Broca's area during novel grammar acquisition: a PPI investigation

Olga Kepinska¹, Mischa de Rover^{1,2}, Johanneke Caspers¹, Niels O. Schiller¹; ¹Leiden University, ²Leiden University Medical Center

D26 Sex differences in second language word learning: fMRI evidence

Jing Yang^{1,2}, Ping Li²; ¹Bilingual Cognition and Development Lab, National Key Research Center for Linguistics and Applied Linguistics, Guangdong University of Foreign Studies, Guangzhou 510420, China, ²Department of Psychology, and Center for Brain, Behavior, & Cognition, Pennsylvania State University, University Park, PA 16802, USA

D27 Do 6 months of bilingual exposure impact neuronal processing of native and non-native regularities?

Sonja Rossi^{1,2,3}, Manfred F. Gugler¹; ¹Department for Medical Psychology, Medical University of Innsbruck, Austria, ²Department for Hearing, Speech, and Voice Disorders, Medical University of Innsbruck, Austria, ³Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany

D28 Neocortical dynamics underpinning rapid and automatic learning mechanism in children: A neuromagnetic investigation

Eino Partanen^{1,2}, Alina Leminen^{1,2}, Stine de Paoli¹, Anette Bundgaard¹, Osman Skjold Kingo³, Peter Krøjgaard³, Yury Shtyrov^{1,4,5}; ¹Center of Functionally Integrative Neuroscience (CFIN), Department of Clinical Medicine, Aarhus University, Aarhus, Denmark, ²Cognitive Brain Research Unit, Institute of Behavioural Sciences, University of Helsinki, Finland, ³Center on Autobiographical Memory Research (CON AMORE), Department of Psychology and Behavioural Sciences, Aarhus University, Denmark, ⁴Centre for Cognition and Decision Making, National Research University Higher School of Economics, Moscow, Russian Federation, ⁵Medical Research Council (MRC), Cognition and Brain Sciences Unit, Cambridge, UK

Grammar: Syntax

D29 The role of procedural memory in the skill for language: Evidence from syntactic priming in patients with amnesia. Evelien Heyselaar¹, Katrien Segaert^{2,1}, Serge J.W. Walvoort³, Roy P.C. Kessels^{3,4,5}, Peter Hagoort^{1,4}; ¹Max Planck Institute for Psycholinguistics, Nijmegen, The Netherlands, ²University of Birmingham, Birmingham, United Kingdom, ³Vincent van Gogh Institute for Psychiatry, Centre of Excellence for Korsakoff and Alcohol-Related Cognitive Disorders, Venray, The Netherlands, ⁴Donders Institute for Brain, Cognition and Behaviour, Radboud University, Nijmegen, The Netherlands, ⁵Radboud University Medical Center, Nijmegen, The Netherlands

D30 How expectation modulations based on verb bias and grammatical structure probabilities shape the sentence processing network Kirsten Weber^{1,2}, Cristiano Micheli³, Esther Ruigendijk⁴, Jochem Rieger³; ¹Max Planck Institute for Psycholinguistics, Nijmegen, the Netherlands, ²Hanse Institute for Advanced Studies, Delmenhorst, Germany, ³Department of Psychology, Carl-von-Ossietzky University, Oldenburg, Germany, ⁴School of Linguistics and Cultural Studies, Carl-von-Ossietzky University, Oldenburg, Germany

D31 Event-related potentials (ERP) in healthy young and older participants: semantic integration, verb argument structure, and morphosyntactic processing Elena Barbieri¹, Matthew Walenski¹, Chien-Ju Hsu¹, Brianne Dougherty¹, Katrin Bovbjerg¹, Cynthia K. Thompson^{1,2,3}; ¹Aphasia and Neurolinguistics Laboratory, Center for the Neurobiology of Language Disorders, Northwestern University, ²Cognitive Neurology and Alzheimer's Disease Center, Northwestern University, ³Department of Neurology, Northwestern University

D32 Spread the word: MMN brain response reveals whole-form access of discontinuous verbs Jeff Hanna¹, Bert Cappelle², Friedemann Pulvermüller^{1,3}; ¹Brain Language Laboratory - Freie Universität Berlin, ²University of Lille 3, ³Berlin School of Mind and Brain - Humboldt Universität zu Berlin

D33 Retrieval cues in language comprehension: Interference effects in monologue but not dialogue Andrea E. Martin¹; ¹School of Philosophy, Psychology and Language Sciences, University of Edinburgh

D34 A fine differentiation of Korean NPIs: Evidence from ERP responses Myung-Kwan Park¹, Euiyon Cho¹, Jeong-Ah Shin¹, Wonil Chung¹; ¹Dongguk University

D35 Selectional restriction and chord sequence incongruities: Further evidence from event-related potentials in processing language and music Myung-Kwan Park¹, Euiyon Cho¹, Jeong-Ah Shin¹, Wonil Chung¹; ¹Dongguk University

Language Disorders

D36 Semantic word category impairments in semantic dementia and posterior cortical atrophy Zubaida Shebani^{1,2}, Karalyn Patterson^{1,3}, Peter J Nestor⁴, Lara Z Diaz-de-Grenu³, Kate Dawson³, Friedemann Pulvermüller^{1,5,6}; ¹Medical Research Council Cognition and Brain Sciences Unit, Cambridge, ²Department of Linguistics, United Arab Emirates University, ³Department of Clinical Neurosciences, University of Cambridge,

⁴German Center for Neurodegenerative Diseases (DZNE), Magdeburg, Germany, ⁵Tecnalia Research and Innovation Center, Health Division, Neurotechnology Unit, Bizkaia Technology Park, Derio, Spain, ⁶Brain Language Laboratory, Department of Philosophy and Humanities, WE4, Freie Universität Berlin, Berlin, Germany

D37 Aberrant neural activity and linguistic dimensions during natural conversation in autism. Kyle Jasmin^{1,2}, Stephen J. Gotts¹, Cameron Riddell¹, John Ingeholm¹, YiSheng Xu³, Siyuan Liu³, Allen R. Braun³, Alex Martin¹; ¹National Institute of Mental Health/NIH, ²Birkbeck, University of London, ³National Institute on Deafness and Other Communication Disorders

D38 Dysprosody As A Clinical Biomarker In Neurodegeneration Naomi Nevler¹, Sharon Ash¹, Charles Jester¹, Mark Liberman¹, Murray Grossman¹; ¹University of Pennsylvania

D39 Longitudinal resting state functional connectivity patterns in the early phase of recovery from aphasia Julian Klingbeil¹, Anika Stockert¹, Max Wawrzyniak¹, Katrin Wrede¹, Dorothee Saur¹; ¹University of Leipzig

D40 A biomarker for recovery and decline of language function years after stroke Thomas M.H. Hope¹, Alex P. Leff¹, Susan Prejawa¹, Rachel Bruce¹, Zula Haigh¹, Louise Lim¹, Sue Ramsden¹, Marion Oberhuber¹, Philipp Ludersdorfer¹, Jenny Crinion¹, Mohamed L. Seghier¹, Cathy J. Price¹; ¹University College London

D41 Dynamics of perilesional activation in aphasia recovery Anika Stockert¹, Max Wawrzyniak¹, Julian Klingbeil¹, Katrin Wrede¹, Dorothee Saur¹; ¹Language and Aphasia Lab, Department of Neurology, University of Leipzig, Germany

D42 Brain regions supporting phonological and semantic reading processes in Central Alexia Oscar Aguilar¹, Zoe Woodhead¹, Martina F. Callaghan¹, Sheila Kerry², Jenny Crinion², Alex Leff²; ¹Wellcome Trust Centre for Neuroimaging - University College London, UK., ²Institute of Cognitive Neuroscience - University College London, UK.

D43 Fragmentation of structural brain networks is associated with more severe post-stroke aphasia. Barbara Khalibinzwa Marebwa¹, Lynda Feenaughty^{1,2}, Julius Fridriksson², Chris Rorden², Grigori Yourganov¹, Leonardo Bonilha¹; ¹Medical University of South Carolina, ²University of South Carolina

D44 The unique neural correlates of speech fluency, phonology and semantics in chronic post-stroke aphasia. Ajay Halai¹, Anna Woollams¹, Matthew Lambon Ralph¹; ¹Neuroscience and Aphasia Research Unit, School of Psychological Sciences, Zochonis Building, Brunswick Street. University of Manchester, M13 9PL. England

D45 Reorganization of language networks in people with aphasia: resting state fMRI data Olga Dragoy¹, Svetlana Kuptsova^{1,2}, Victoria Zavyalova^{1,3}, Nicola Canessa⁴, Alexey Petrushevsky², Oksana Fedina², Stefano Cappa⁴; ¹National Research University Higher School of Economics, ²Center for Speech Pathology and Neurorehabilitation, ³National Research Centre 'Kurchatov Institute', ⁴University of Pavia

Meaning: Combinatorial Semantics

D46 A common, fine-grained code for object meaning in a subregion of the anterior temporal cortex Amy Price¹, Michael Bonner¹, Jonathan Peelle², Murray Grossman¹; ¹University of Pennsylvania, ²Washington University in St. Louis

D47 That was not what I expected: specifying the role of the left inferior frontal gyrus in processing unexpected words Sofia Frade¹, Andrea Santi², Ana Raposo¹; ¹University of Lisbon, ²University College of London

D48 The Priming of Basic Combinatory Responses in MEG Esti Blanco-Elorrieta¹, Victor S. Ferreira³, Paul Del Prato¹, Liina Pykkänen^{1,2}; ¹New York University, ²NYUAD Institute, ³University of California San Diego

D49 An ERP study of the relationship between verb semantics and events Annika Andersson¹, Marianne Gullberg^{1,2}; ¹Lund University Humlab, ²Lund University Centre for Languages and Literature

Meaning: Discourse and Pragmatics

D50 Online modelling of social perspectives in joint interaction: Event-related potential evidence Jyrki Tuomainen¹, Alexandra Westley², John Swettenham²; ¹UCL, Speech Hearing and Phonetic Sciences, ²UCL, Language and Cognition

D51 Neural correlates of social appropriateness in dynamic conversation Kathrin Rothermich¹, Marc D. Pell¹; ¹School of Communication Sciences & Disorders, McGill University, Montreal, Canada

D52 Finding your way in the zoo: how situation model alignment affects interpersonal neural coupling Lotte Schoot¹, Arjen Stolk^{3,2}, Peter Hagoort^{1,2}, Simon Garrod⁴, Katrien Segaert^{5,1}, Laura Menenti^{4,1}; ¹Max Planck Institute for Psycholinguistics, Nijmegen, The Netherlands, ²Donders Institute for Brain, Cognition and Behaviour, Nijmegen, The Netherlands, ³Knight Lab, University of California, Berkeley, US, ⁴Institute of Neuroscience and Psychology, University of Glasgow, Glasgow, UK, ⁵School of Psychology, University of Birmingham, Birmingham, UK

Perception: Orthographic and Other Visual Processes

D53 The time course of lexical access for handwritten words: An ERP investigation Marta Vergara-Martinez¹, Manuel Carreiras², Eva Gutiérrez-Sigut¹, Cristina Gil², Manuel Perea^{1,2}; ¹Universitat de València, ²Basque Center on Cognition, Brain and Language (BCBL)

D54 Early ERP effects of orthographic and phonological lexicality in native, Spanish-English, and Chinese-English readers of English Gary Dicks¹, Naira Taroyan¹, Jane Morgan¹, Anna Maria Di Betta¹; ¹Sheffield Hallam University

D55 There is no „pure” orthographic brain area in the visual system of the blind Katarzyna Rączy¹, Aleksandra Sadowska¹, Marianna Boros¹, Anna Chabuda², Paweł Hańczur³, Ewa Sumera⁴, Marcin Szwed¹; ¹Jagiellonian University, ²University of Warsaw, ³Warsaw University of Technology, ⁴Institute for the Blind and Partially Sighted Children

D56 The anatomy of the posterior segment of the arcuate fasciculus correlates with reading and vocabulary comprehension performance Naianna Robertsson^{1,2}, Stephanie J. Forkel¹, Flavio Dell'Acqua², Marco Catani²; ¹Natbrainlab, Centre for Neuroimaging Sciences, Institute of Psychiatry, Psychology and Neuroscience, King's College London, London UK, ²Natbrainlab, Department of Forensic and Neurodevelopmental Sciences and The Sackler Institute for Translational Neurodevelopmental Sciences, Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, UK

Phonology and Phonological Working Memory

D57 MMN investigation of voicing features in Russian Kevin Schluter¹, Stephen Politzer-Ahles², Diogo Almeida¹; ¹New York University Abu Dhabi, ²University of Oxford

D58 The involvement of the pedunculopontine nucleus (PPN) in phonological auditory processing: A case report Kim De Keyser¹, Arnout Bruggeman¹, Dirk Van Roost¹, Patrick Santens¹, Miet De Letter¹; ¹Ghent University

Signed Language and Gesture

D59 Neural integration of speech and naturally produced, meaningful gestures Karen Emmorey¹, Jill Weisberg¹, Amy Hubbard¹; ¹San Diego State University, ²Institute of Health Promotion and Clinical Movement Science

D60 The neural basis of the integration of speech and gesture: A brain stimulation approach Wanying Zhao¹, Kevin Riggs¹, Igor Schindler¹, Henning Hollo¹; ¹University of Hull, Department of Psychology

Speech Motor Control and Sensorimotor Integration

D61 Exploring the interaction between the rhythms of motor and auditory cortices M. Florencia Assaneo¹, David Poeppel^{1,2}; ¹New York University, ²Max-Planck-Institute, Frankfurt

D62 Acoustic and articulatory outcomes of speech training examined with real-time vocal tract MRI Daniel Carey¹, Marc E. Miquel², Matthieu Ruthven², Bronwen G. Evans³, Patti Adank³, Carolyn McGettigan¹; ¹Dept. of Psychology, Royal Holloway, University of London, ²Clinical Physics, Barts London NHS Trust, ³Dept. of Speech, Hearing and Phonetic Sciences, University College London

D63 Functional brain outcomes of speech training: generalization from phones to words Daniel Carey¹, Marc E. Miquel², Bronwen G. Evans³, Patti Adank³, Carolyn McGettigan¹; ¹Dept. of Psychology, Royal Holloway, University of London, ²Clinical Physics, Barts London NHS Trust, ³Dept. of Speech, Hearing and Phonetic Sciences, University College London

Control, Selection, and Executive Processes

D64 Development of the Frontal Aslant Tract (FAT) and its relation to executive function in typical children. Dea Garic¹, Iris Broce¹, Anthony Steven Dick¹; ¹Florida International University

D65 Language-Related Functional Networks in the Ventromedial Prefrontal Cortex Rebecca Jackson¹, Lauren L Cloutman², Matthew A Lambon Ralph³; ¹Neuroscience & Research Unit, University of Manchester

D66 The role of task complexity in mediating relations of whole brain modularity to task performance Qiu-hai Yue¹, Randi C. Martin¹, Simon Fischer-Baum¹, Aurora Ramos Nunez¹, Michael Deem¹, Fengdan Ye¹; ¹Rice University, Houston, TX, USA

Meaning: Prosody, Social and Emotional Processes

D67 Temporal network dynamics of prosody perception: An MEG study Daniela Sammler¹, Burkhard Maess¹, Maren Grigutsch¹; ¹Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany

D68 Reduced sensorimotor responses to laughter in children with conduct problems and high callous-unemotional traits Cesar Lima¹, Elizabeth O'Nions^{2,3}, Ruth Roberts², Rachael Lickley², Sophie Scott¹, Eamon McCrory², Essi Viding^{2,3}; ¹Institute of Cognitive Neuroscience, University College London, ²Division of Psychology and Language Sciences, University College London, ³Institute of Psychiatry, Psychology and Neuroscience, King's College London

Methods

D69 Signal-space-projection (SSP) methods for extracting single-trial time courses from EEG/MEG data Olaf Hauk¹, Matthias S. Treder¹, Dennis Norris¹; ¹MRC Cognition and Brain Sciences Unit, Cambridge, UK

D70 Electrophysiological correlates of interference effects in the picture-word interference paradigm Audrey Bürki¹; ¹Methodology and data analysis & Psycholinguistic research group, Faculty of Psychology and Educational Sciences, University of Geneva, Switzerland

Writing and Spelling

D71 The brain regions that translate phonology into orthography during oral spelling Philipp Ludersdorfer¹, Suz Prejawa¹, Marion Oberhuber¹, Julie Guerin¹, Mohamed L. Seghier², Thomas M. Hope¹, Oiwi Parker Jones³, David W. Green⁴, Cathy J. Price¹; ¹Wellcome Trust Centre for Neuroimaging, University College London, UK, ²Cognitive Neuroimaging Unit, Emirates College for Advanced Education, Abu Dhabi, United Arab Emirates, ³FMRIB (Oxford Centre for Functional MRI of the Brain), Oxford University, UK, ⁴Experimental Psychology Research Department, Division of Psychology and Language Sciences, University College London, UK

Poster Session E

Perception: Auditory

E1 Presentation rate is a constraint on neurobiological theories of sensitivity to regularity Ben Davis¹, Giuseppe Notaro¹, Uri Hasson¹; ¹University of Trento

E2 The importance of white matter tract integrity in aging speech perception: moving beyond the auditory periphery. Dan Kennedy-Higgins^{1,3}, Maxime Descoteaux⁴, Isabelle Deschamps^{1,2}, Anthony S. Dick⁵, Marie-Hélène Tessier¹, Pascale Tremblay^{1,2}; ¹Centre de Recherche de l'Institut Universitaire en santé mentale de Québec, Québec, Canada, ²Faculté de Médecine, Département de Réadaptation, Université Laval, Québec, Canada, ³Department of Speech, Hearing and Phonetic Sciences, University College London, UK, ⁴Sherbrooke Connectivity Imaging Lab, Faculté des Sciences, Université de Sherbrooke, Sherbrooke, Canada, ⁵Department of Psychology, Florida International University, Miami, USA

E3 Word-frequency and phoneme-frequency differentially modulate predictive processing of speech Johanna Steinberg¹, Anna Marzecová¹, Mathias Scharinger^{1,2}; ¹Leipzig University, Germany, ²Max Planck Institute for Empirical Aesthetics, Frankfurt, Germany

E4 Bilingual perception of language code-switching: Auditory event-related potentials for different exposure times to second language Chikage Kameyama^{1,2}, Ryoya Saji²; ¹Tamagawa University, Engineering dept. □ Tokyo, Japan., ²Tamagawa University, Brain science Inst., Tokyo, Japan

Perception: Speech Perception and Audiovisual Integration

E5 Orthographic influence on spoken word identification: Behavioral and fMRI evidence Christine Chiarello¹, Kenneth I. Vaden², Mark A. Eckert²; ¹University of California, Riverside, ²Medical University of South Carolina

E6 In search of the kiki-bouba effect Gwilym Lockwood¹, Linda Drijvers^{2,3}, Peter Hagoort^{1,3}, Mark Dingemans¹; ¹Max Planck Institute for Psycholinguistics, ²Centre for Language Studies, Radboud University, ³Donders Institute for Brain, Cognition, and Behaviour

E7 Decoupling activity in auditory cortices caused by the detection of categorical phoneme changes Faith Chiu¹, Jyrki Tuomainen¹; ¹University College London, UK

E8 Is a high tone sharp or smooth? Sound symbolism and the limits of 'perceptual tuning' to tone in language Suzy J Styles¹, Nan Shang¹; ¹Nanyang Technological University

E9 Incremental processing of Chinese spoken words and the influence of different tonal contrasts on lexical competition effects: Evidence from eye movements Chung-I Erica Su¹, Guan-Huei Li¹, Jie-Li Tsai¹; ¹National Chengchi University, Taiwan

Signed Language and Gesture

E10 The neural systems supporting phonological processing of British Sign Language (BSL): the effect of the age of BSL acquisition and phonological parameters Tae Twomey¹, Dafydd Waters¹, Cathy Price¹, Mairéad MacSweeney¹; ¹University College London

Perception: Speech Perception and Audiovisual Integration

E11 Phonological specification of spectral change in Australian English front vowels Daniel Williams¹, Kateřina Chládková²; ¹University of Potsdam, ²University of Leipzig

E12 Gestural enhancement of degraded speech comprehension engages the language network, motor and visual cortex as reflected by a decrease in the alpha and beta band Linda Drijvers^{1,2}, Asli Özyürek^{1,3}, Ole Jensen²; ¹Centre for Language Studies, Radboud University, Nijmegen, The Netherlands, ²Donders Institute, Radboud University, Nijmegen, The Netherlands, ³Max Planck Institute for Psycholinguistics, Nijmegen, The Netherlands

Multilingualism

E13 Cross-language phonological activation through translation in Chinese-English bilinguals: Evidence from brain potentials and brain oscillations Yun Wen¹, Ruth Filik¹, Walter J. B. van Heuven¹; ¹School of Psychology, The University of Nottingham, United Kingdom

E14 One brain, one language, two codes? The curious case of Norwegian Viktoria Havas¹, Mila Vulchanova¹; ¹Language Acquisition and Language Processing Lab, Norwegian University of Science and Technology, Trondheim, Norway

E15 Won't get fooled again? Lie production and lie perception in native and non-native languages. Lela Ivaz¹, Albert Costa^{2,3}, Jon Andoni Duñabeitia¹; ¹BCBL, Basque Center on Cognition, Brain and Language; Donostia, Spain, ²CBC, Center of Brain and Cognition, Universitat Pompeu Fabra, Barcelona, Spain, ³ICREA, Institució Catalana de Recerca i Estudis Avançats, Barcelona, Spain

E16 Age of language acquisition influences the cortical language organization in multilingual patients undergoing awake brain mapping Viktoria Havas^{1,2}, Alejandro Fernandez-Coello³, Montserrat Juncadella⁴, Antoni Rodríguez-Fornells^{1,5}, Andreu Gabarrós³; ¹Cognition and Brain Plasticity Group, Bellvitge Biomedical Research Institute [IDIBELL], ²Language Acquisition and Language Processing Lab, Norwegian University of Science and Technology [NTNU], ³Hospital Universitari de Bellvitge (HUB), Neurosurgery Section, Campus Bellvitge, University of Barcelona – IDIBELL, ⁴Hospital Universitari de Bellvitge (HUB), Neurology Section, Campus Bellvitge, University of Barcelona – IDIBELL, ⁵Catalan Institution for Research and Advanced Studies, ICREA

E17 Mean Diffusivity reveals white matter microstructural differences between monolinguals and bilinguals Nandini Singh¹, Archana Malagi¹, Archith Rajan¹, Keerthi Ramanujan¹, Matteo Canini², Pasquale Della Rosa², Partha Raghunathan¹, Brendan Weekes³, Jubin Abutaleb²; ¹National Brain Research Centra, Manesar, INDIA, ²Centre of Cognitive Neuroscience, University Vita Salute San Raffaele, Milan, Italy, ³Division of Speech and Hearing Sciences, University of Hong Kong, Hong Kong

Meaning: Lexical Semantics

E18 Task-related effects on visual word recognition. A MEG study. Lorenzo Vignali¹, Philipp Ruhnau², Burkhard Maess³, Stefan Hawelka¹, Nathan Weisz¹, Florian Hutzler¹; ¹Centre for Cognitive Neuroscience, University of Salzburg, Salzburg, Austria, ²Department of Neurology, Otto-von-Guericke-University Magdeburg, Magdeburg, Germany, ³MEG and Cortical Networks, Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany

E19 The semantic representations of words reflect co-occurrence statistics and conceptual taxonomies in distinct brain regions. Francesca Carota^{1,4}, Friedemann Pulvermüller², Hamed Nili³, Nikolaus Kriegeskorte⁴; ¹Humboldt Universität, Berlin, ²Freie Universität, Berlin, ³University of Oxford, ⁴MRC-CBU/Cambridge University

E20 fMRI dissociations between subclasses of abstract nouns in left motor areas during passive reading Felix R. Dreyer¹, Friedemann Pulvermüller^{1,2}; ¹Brain Language Laboratory, Freie Universität Berlin, ²Berlin School of Mind and Brain, Humboldt-Universität Berlin

E21 Semantic hub or convergence zones? EEG/MEG evidence for the central role of the Anterior Temporal Lobe in semantic processing S.Rezvan Farahibozorg^{1,2}, Anna Woollams³, Elisa Cooper¹, Gemma Evans³, Yuan Yuan Chen³, Karalyn Patterson², Olaf Hauk¹; ¹MRC Cognition and Brain Sciences Unit, Cambridge, UK, ²University of Cambridge, Cambridge, UK, ³University of Manchester, Manchester, UK

E22 Evidence for Inner Speech: Orthographic and Phonological Effects without Words N. Zur1, N. Binur1, Orna Peleg2 and Zohar Eviatar1 1 Institute of Information Processing and Decision Making, Haifa University 2 Program of Cognitive Studies of Language and Its Uses, Tel-Aviv University Naama Zur¹, Nahal Binur¹, Orna Peleg², Zohar Eviatar¹; ¹Institute of Information Processing and Decision Making, Haifa University, ²Program of Cognitive Studies of Language and Its Uses, Tel-Aviv University

E23 How Serious are Games? Electrophysiological evidence of rapid L2 learning Ana Zappa^{1,5}, Keira O'Neil², Aaron Newman², Jean-Marie Pergandi^{1,3,4}, Daniel Mestre^{1,3,4,6}, Cheryl Frenck-Mestre^{1,5,6}; ¹Aix-Marseille Université, ²Dalhousie University, ³Institute of Movement Sciences, ⁴Mediterranean Virtual Reality Center, ⁵Laboratoire Parole et Langage, ⁶Centre National de Recherche Scientifique

E24 Spoken words can make the invisible visible: Testing the involvement of low-level visual representations in spoken word processing Markus Ostarek^{1,2}, Falk Huettig^{1,3}; ¹Max Planck Institute for Psycholinguistics, Nijmegen, The Netherlands, ²International Max Planck Research School of Language Sciences, ³Donders Institute for Brain, Cognition, and Behavior, Radboud University, Nijmegen

E25 The effect of word predictability and its relation to reading proficiency: A fixation-related fMRI study Sarah Schuster^{1,2}, Florian Hutzler^{1,2}, Fabio Richlan^{1,2}, Martin Kronbichler^{1,2,3}, Stefan Hawelka^{1,2}; ¹Centre for Cognitive Neuroscience, University of Salzburg, Hellbrunnerstr. 34, 5020 Salzburg, Austria, ²Department of Psychology, University of Salzburg, Hellbrunnerstr. 34, 5020 Salzburg, Austria, ³Neuroscience Institut, Christian-Doppler Klinik, Ignaz-Harrer-Str. 79, 5020 Salzburg, Austria

E26 Lexical and semantic processing explored using visual Mismatch Negativity Dawei Wei¹, Yijin Lin¹, Margaret Gillon Dowens¹; ¹Cognitive Neuroscience of Language Laboratory, University of Nottingham Ningbo China

Language Development

E27 Processing of phonemes and prosody throughout infancy: two peas in a pod? Claudia Teickner^{1,2}, Angelika Becker², Claudia K. Friedrich^{1,2}; ¹University of Tuebingen, ²University of Hamburg

E28 Beginning readers process more speech details than prereaders Anne Bauch¹, Claudia Friedrich¹, Ulrike Schild¹; ¹Eberhard Karls University of Tuebingen

E29 Hemispheric lateralisation in school-aged children during picture naming. Elizabeth Worster¹, Heather Payne¹, Mairéad MacSweeney¹; ¹University College London

E30 Rapid neural memory-trace formation for novel words is independent of attention but influenced by individual language experience and reading ability Lilli Kimppa¹, Teija Kujala¹, Eino Partanen^{1,2}, Alina Leminen^{1,2}, Martti Vainio³, Yuri Shtyrov^{2,4}; ¹Cognitive Brain Research Unit, Institute of Behavioural Sciences, University of Helsinki, Finland, ²Center of Functionally Integrative Neuroscience, Institute for Clinical Medicine, Aarhus University, Denmark, ³Phonetics and Speech Synthesis Research Group, Institute of Behavioural Sciences, University of Helsinki, Finland, ⁴Centre for Cognition & Decision Making, NRU Higher School of Economics, Moscow, Russia

E31 Early active acoustic experience with non-speech may confer a phonemic mapping advantage at 7- and 9-months-of-age. Silvia Ortiz-Mantilla¹, Teresa Realpe-Bonilla¹, Cynthia P. Roesler¹, Naseem Choudhury^{1,2}, April A. Benasich¹; ¹Center for Molecular and Behavioral Neuroscience, Rutgers University, Newark, NJ, ²Ramapo College of New Jersey, Mahwah, NJ

Grammar: Syntax

E32 What verbs can do: an ERP study on Basque Simona Mancini¹, Stephanie Massol^{1,2}, Jon A. Duñabeitia¹, Manuel Carreiras¹, Nicola Molinaro¹; ¹Basque Center on Cognition, Brain and Language, ²University of Nîmes

E33 Shared and distinct cognitive resources for syntax and prosody: a sentence comprehension study Arianna N. LaCroix¹, Nicole Blumenstein¹, Chloe Houlihan¹, Corianne Rogalsky¹; ¹Arizona State University

E34 A neurocomputational mechanism for parsing: Finding hierarchical linguistic structure in a model of relational processing Andrea E. Martin¹, Leonidas A. A. Doulmas¹; ¹School of Philosophy, Psychology and Language Sciences, University of Edinburgh

E35 Granularity of Prediction for English Verb Complements Victoria Sharpe¹, Samir Reddigari¹, Alec Marantz^{1,2}, Liina Pykkänen^{1,2}; ¹New York University, ²New York University Abu Dhabi

E36 The eyes have it: cross-method and cross-linguistic patterns Phillip M. Alday¹, Franziska Kretschmar², Svenja Lüll², Louise Kyriaki¹, Matthias Schlesewsky¹, Ina Bornkessel-Schlesewsky¹; ¹University of South Australia, ²Johannes-Gutenberg University Mainz

E37 The P600 behaves like a P3: adding MVPA to the evidence from skin response, event-related desynchronization, response time alignment, and heart period Jona Sassenhagen¹, Christian J. Fiebach¹; ¹University of Frankfurt

Language Disorders

E38 Acute cerebral perfusion does not predict long-term recovery from aphasia Lorelei Phillip¹, Helga Thors¹, Grigori Yourganov², Christopher Rorden¹, Leonardo Bonilha², Sigridur Magnúsdóttir³, Julius Fridriksson¹; ¹University of South Carolina, Columbia, South Carolina, ²Medical University of South Carolina, Charleston, South Carolina, ³Landspítali - University Hospital, Reykjavik, Iceland

E39 Rhythm processing deficits in the non-fluent variant of primary progressive aphasia Rose Bruffaerts^{1,2}, Jolien Schaevebeke^{1,3}, Manon Grube^{4,5}, Veerle Neyens¹, Bruno Bergmans⁶, Eva Dries², Timothy Griffiths^{4,7}, Rik Vandenberghe^{1,2,3}; ¹Laboratory for Cognitive Neurology, KU Leuven Department of Neurosciences, Belgium, ²Neurology Department, University Hospitals Leuven, Leuven, Belgium, ³Alzheimer Research Centre KU Leuven, Leuven research Institute for Neuroscience & Disease, University of Leuven, Belgium, ⁴Institute of Neuroscience, Medical School, Newcastle University, Newcastle-upon-Tyne, UK, ⁵Machine Learning Group, Berlin Institute of Technology, Berlin, Germany, ⁶Neurology Department, AZ Sint-Jan Brugge-Oostende AV, Brugge, Belgium, ⁷Wellcome Centre for Neuroimaging, UCL, London, UK

E40 “quack” and duck : processing environmental sounds and auditory speech comprehension in aphasia. Henry Coley-Fisher¹, Sonia Brownsett¹, Robert Leech², Fred Dick³, Alex Leff¹, Jennifer Crinion¹; ¹University College London, ²Imperial College London, ³Birkbeck University of London

E41 Verbal and non-verbal auditory processing impairments in Primary Progressive Aphasia: an event-related potential investigation Robert Hurley^{1,2}, Marsel Mesulam^{1,2}, Emily Rogalski¹, Okkes Kuybu¹; ¹Cognitive Neurology & Alzheimer's Disease Center, ²Department of Neurology

E42 Progressive aphasia as disorders of auditory information processing: behavioural signatures and structural neuroanatomy Chris Hardy¹, Charles Marshall¹, Camilla Clark¹, Lucy Russell¹, Emilie Brotherhood¹, David Thomas¹, Sebastian Crutch¹, Jonathan Rohrer¹, Jennifer Agustus¹, Jason Warren¹; ¹University College London

E43 Dyslexic brain activation abnormalities in deep and shallow orthographies: a meta-analysis of 28 functional neuroimaging studies Fabio Richlan¹, Anna Martin^{1,2}, Martin Kronbichler^{1,2}; ¹University of Salzburg, ²Christian Doppler Clinic Salzburg

E44 Can you play with fire and not hurt yourself? A comparative study in idiom comprehension between individuals with and without Autism Spectrum Disorder Mila Vulchanova¹, Sobh Chahboun¹, Valentin Vulchanov¹, Hendrik Eshuis¹, David Saldaña²; ¹Language Acquisition and Language Processing Lab, NTNU, ²Individual Differences, Language and Cognition Lab Department of Developmental and Educational Psychology University of Seville

E45 Computer-based word reading training improves oral reading accuracy in patients with chronic central alexia Zoe Woodhead¹, Sheila Kerry¹, Yean-Hoon Ong¹, Oscar Aguilar¹, Jenny Crinion¹, Alex Leff¹; ¹University College London

E46 Lesion and fMRI data reveal the contribution of right-hemisphere subcortical regions to auditory sentence comprehension Andrea Gajardo-Vidal^{1,2}, Diego Lorca-Puls¹, Thomas M.H Hope¹, Oiwi Parker Jones³, Marion Oberhuber¹, Mohamed L. Seghier⁴, Alex P. Leff⁵, David W. Green⁶, Cathy J. Price¹; ¹Wellcome Trust Centre for Neuroimaging, University College London, ²Faculty of Health Sciences, Universidad Del Desarrollo, Chile, ³fMRIB Centre, University of Oxford, ⁴Cognitive Neuroimaging Unit, Emirates College for Advanced Education, Abu Dhabi, ⁵Institute of Cognitive Neuroscience, University College London, ⁶Experimental Psychology, University College London

Meaning: Combinatorial Semantics

E48 Metaphor initiates semantic changes: Evidence from an fMRI study on Chinese verbs Jiexin Gu^{1,2}, Shixiao Chen¹, Jinjun Wang¹, Yiming Yang^{1,2}; ¹Jiangsu Normal University, ²Language Ability Collaborative Innovation Center

E49 Early Sensitivity to Argument Structure in the Left Inferior Parietal Lobe Samir Reddigari¹, Liina Pyllkänen^{1,2}; ¹New York University, ²NYUAD Institute

E50 Metaphors are concrete: Evidence from ERP Vicky Tzuyin Lai¹, Olivia Howerton¹, Rutvik H. Desai¹; ¹Department of Psychology, University of South Carolina

Meaning: Discourse and Pragmatics

E51 To plan or to listen? The trade-off between comprehension and production in conversation. Sara Bögels¹, Marisa Casillas¹, Stephen Levinson^{1,2}; ¹Max Planck Institute for Psycholinguistics, Nijmegen, ²Donders Institute for Brain, Cognition and Behaviour, Nijmegen

E52 Mismatch Negativity Differences Reflect Community-based Conventionalization of Conceptual Metaphors in Taiwanese Mandarin Paul Yu-Chun Chang¹, Chia-Lin Lee², Hans-Jörg Schmid¹; ¹LMU Munich, ²National Taiwan University

E53 I spy with my little eye: ERP signatures of perspective taking in referential communication Maria Richter¹, Lu Zhang¹, Choonkyu Lee¹, Barbara Höhle¹, Isabell Wartenburger¹; ¹University of Potsdam

Perception: Orthographic and Other Visual Processes

E54 The Label Feedback Effect: Speech Modulates Visual Search, but Language Isn't the Culprit Katherine P Hebert¹, Stephen D Goldinger¹; ¹Arizona State University

E55 Investigating the role of linguistic and attentional processes in lexicality judgements in Alzheimer's disease Nancy Azevedo^{1,2}, Ruth Ann Atchley³, Eva Kehayia^{1,2}, Paul Atchley³, N.P. Vasavan Nair^{1,4}; ¹McGill University, ²Centre for Interdisciplinary Research in Rehabilitation (CRIR)- Jewish Rehabilitation Hospital, ³University of Kansas, ⁴Douglas Mental Health University Institute

E56 Hemispheric lateralization of early ERP components in deaf and hearing readers with low and high vocabulary size Zed Sevcikova Sehyr¹, Karen Emmorey¹, Katherine Midgley¹, Phillip Holcomb¹; ¹San Diego State University

E57 Literacy acquisition drives hemispheric lateralization of reading Frank Eisner¹, Uttam Kumar², Ramesh K. Mishra³, Viveka Nand Tripathi⁴, Anupam Guleria², Jay Prakash Singh⁴, Falk Huettig⁵; ¹Radboud University, Netherlands, ²Centre of Biomedical Research, India, ³University of Hyderabad, India, ⁴University of Allahabad, India, ⁵Max Planck Institute for Psycholinguistics, Netherlands

Phonology and Phonological Working Memory

E58 Do skilled deaf readers access phonological codes? Noemi Fariña¹, Alejandro Pérez¹, Jon Andoni Duñabeitia¹, Manuel Carreiras^{1,2,3}; ¹BCBL. Basque Center on Cognition, Brain and Language; Donostia, Spain, ²Ikerbasque, Basque Foundation for Science; Bilbao, Spain, ³University of the Basque Country EHU/UPV, Bilbao, Spain

E59 Fiber pathways important for early literacy in young children Iris Broce¹, Aaron Mattfeld¹, Byron Bernal², Nolan Altman², Catherine Bradley³, Natalie Baez¹, Luis Cabrera¹, Gretter Hernandez¹, Anna Deferia¹, Anthony Steven Dick¹; ¹Florida International University, ²Nicklaus Children's Hospital, ³James Haley Veterans' Hospital

Signed Language and Gesture

E60 Why short term memory span for signs is lower than for speech? Anna Petrova¹, Michele Miozzo², Simon Fischer-Baum³, Francesca Peressotti⁴; ¹The University of Hong Kong, ²Columbia University, ³Rice University, ⁴University of Padua

Speech Motor Control and Sensorimotor Integration

E61 Neural mechanisms underlying auditory feedback processing during speech production Matthias K. Franken^{1,2}, Frank Eisner¹, Daniel J. Acheson^{1,2}, James M. McQueen^{1,2,3}, Peter Hagoort^{1,2}, Jan-Mathijs Schoffelen¹; ¹Donders Institute for Brain, Cognition and Behaviour, Radboud University, Nijmegen, The Netherlands, ²Max Planck Institute for Psycholinguistics, Nijmegen, The Netherlands, ³Behavioural Sciences Institute, Radboud University, Nijmegen, The Netherlands

E62 Role of the motor system in perceptual categorization of ambiguous speech sounds Yue Sun^{1,2}, Sharon Peperkamp²; ¹Max-Planck-Institute for Empirical Aesthetics, ²Ecole Normale Supérieure

E63 Sex-related sensorimotor processing differences during speech discrimination tasks revealed in EEG mu rhythms David Thornton¹, David Jenson¹, Ashley Harkrider¹, Tiffani Kittilstved¹, Tim Saltuklaroglu¹; ¹University of Tennessee Health Science Center

Control, Selection, and Executive Processes

E64 Interpreting Experience Enhances Early Attentional Processing, Conflict Monitoring and Interference Suppression Yanping Dong¹, Fei Zhong¹, Yifei Ji¹; ¹Bilingual Cognition and Development Lab, National Key Research Center for Linguistics and Applied Linguistics, Guangdong University of Foreign Studies, Guangzhou 510420, China

E65 Effects of task demand and intelligibility on the cortical entrainment response Lucas Baltzell¹, Virginia Richards¹, Ramesh Srinivasan¹; ¹Department of Cognitive Sciences, University of California, Irvine

E66 Control adjustments in speaking: Electrophysiology of the Gratton effect in picture naming Natalia Shitova^{1,2}, Ardi Roelofs¹, Herbert Schriefers¹, Marcel Bastiaansen³, Jan-Mathijs Schoffelen^{1,4}; ¹Donders Institute for Brain, Cognition and Behaviour, Radboud University, Nijmegen, ²International Max Planck Research School for Language Sciences, Max Planck Institute for Psycholinguistics, Nijmegen, ³NHTV Breda University of Applied Science, ⁴Max Planck Institute for Psycholinguistics, Nijmegen

Meaning: Prosody, Social and Emotional Processes

E67 Neural mechanisms for the perception of voluntary and involuntary emotional vocalisations Sinead H.Y. Chen¹, Saloni Krishnan^{1,2}, Cesar Lima^{1,3}, Samuel Evans¹, Stella Guldner¹, Ana Assis Gomes¹, Sophie Scott¹; ¹University College London, ²University of Oxford, ³Faculty of Psychology and Education, University of Porto

E68 What can ERPs and neural oscillations tell us about emotional vocal change detection? Ana Pinheiro^{1,2}, Carla Barros¹, Sonja A. Kotz^{3,4}; ¹School of Psychology, University of Minho, ²Faculty of Psychology, University of Lisbon, ³Max Planck Institute for Human Cognitive and Brain Sciences, ⁴Faculty of Psychology and Neuroscience, Maastricht University

Methods

E69 From sound to syntax: Novel task-free EEG paradigm for registering multiple levels of language processing in the brain Christelle Gansonre¹, Andreas Højlund Nielsen^{1,2}, Alina Leminen^{1,3}, Morten Overgaard⁴, Yury Shtyrov¹; ¹Center of Functionally Integrative Neuroscience (CFIN), Aarhus University, ²Dept. of Neurology, Aarhus University, ³Cognitive Brain Research Unit, University of Helsinki, ⁴Cognitive Neuroscience Research Unit, CFIN, Aarhus University

E70 Investigation of Depth-Dependent BOLD During Language Processing Daniel Sharoh¹, Tim van Mourik¹, Lauren J. Bains¹, Katrien Segaert², Kirsten Weber³, Peter Hagoort^{1,3}, David G. Norris^{1,4}; ¹Radboud University, Donders Institute for Brain, Cognition and Behaviour, ²University of Birmingham, ³Max Planck Institute for Psycholinguistics, ⁴Erwin L. Hahn Institute for Magnetic Resonance Imaging

Writing and Spelling

E71 Componential and holistic processing of novel visual-verbal associations Connor Quinn^{1,2}, J. S. H. Taylor³, Matthew H. Davis¹; ¹MRC Cognition and Brain Sciences Unit, Cambridge, ²University of Cambridge, ³Royal Holloway, University of London

Poster Session F

Perception: Auditory

F1 Musicians and non-musicians show distinct spatiotemporal network activity while listening Saloni Krishnan¹, Samuel Evans², César Lima², Sinead Chen², Stella Guldner², Sophie Scott²; ¹Department of Experimental Psychology, University of Oxford, ²Institute of Cognitive Neuroscience, University College London

F2 The role of auditory cortex morphology in language aptitude Sabrina Turker¹, Peter Schneider², Annemarie Seither-Preisler^{1,3}, Susanne Reiterer⁴; ¹Karl-Franzens University of Graz, Austria, ²University Clinic Heidelberg, Germany, ³BioTechMed, Graz, Austria, ⁴University of Vienna, Austria

Perception: Speech Perception and Audiovisual Integration

F3 Native language status of the listener modulates the neural integration of speech and gesture in clear and adverse listening conditions Linda Drijvers^{1,2}, Asli Özyürek^{1,3}; ¹Centre for Language Studies, Radboud University, Nijmegen, The Netherlands, ²Donders Institute, Radboud University, Nijmegen, The Netherlands, ³Max Planck Institute for Psycholinguistics, Nijmegen, The Netherlands

F4 Lip movements entrain the observers' low-frequency brain oscillations to facilitate speech intelligibility Hyojin Park¹, Christoph Kayser¹, Gregor Thut¹, Joachim Gross¹; ¹Institute of Neuroscience and Psychology, University of Glasgow, Glasgow, United Kingdom

F5 Sensorimotor differences between stuttering and non-stuttering adults in speech and tone discrimination tasks observed in EEG mu rhythms Ashley Harkrider¹, Tim Saltukaroglu¹, David Thornon¹, David Jenson¹, Tiffani Kittilstved¹, Andrew Bowers²; ¹University of Tennessee Health Sciences Center, Department of Audiology and Speech-Language Pathology, ²University of Arkansas, Department of Communication Disorders

F6 The role of the premotor cortex in multisensory speech perception throughout adulthood: a rTMS study Avril Treille¹, Marc Sato², Jean-Luc Schwartz¹, Coriandre Vilain¹, Pascale Tremblay³; ¹GIPSA-lab, Department of Speech and Cognition, CNRS & Grenoble University, France, ²Speech and Language Laboratory, CNRS & Aix-Marseille University, France, ³Centre de recherche de l'institut en santé mentale de Québec, Département de réadaptation, Université Laval, Québec City, QC, Canada

F7 Distributed Networks of Speech Production Regions Play a Context Determined Role in Speech Perception Jeremy I Skipper¹, Joseph Devlin¹, Daniel R Lametti^{1,2}; ¹University College London, ²The University of Oxford

F8 Speech rhythm measure of non-native speech using a statistical phonemic duration model

Sadao Hiroya¹, Kyle Jasmin², Samuel Evans², Saloni Krishnan³, Cesar Lima², Marcus Ostarek², Dana Boebinger⁴, Sophie K. Scott²; ¹NTT, ²UCL, ³Oxford, ⁴Harvard

Multilingualism

F9 Bilingualism impacts white-matter connectivity: evidence from DTI

Eleonora Rossi¹, Hu Cheng², Judith F. Kroll³, Michele T. Diaz³, Sharlene Newman²; ¹California State Polytechnic University, Pomona, ²Indiana University, Bloomington, ³Pennsylvania State University

F10 Neural underpinnings of grammatical processing for less proficient L2 learners

Kyra Krass¹, Yanina Prystauka¹, Eleonora Rossi²; ¹University of Connecticut, ²California State Polytechnic University, Pomona

F11 While language-switching in the lab localizes in anterior cingulate cortex, comprehending code-switches in the wild begins in auditory cortex

Esti Blanco-Elorrieta¹, Liina Pykkänen^{1,2}; ¹New York University, ²NYUAD Institute

F12 Perception and production interactions in non-native speech category learning

Jana Krutwig¹, Makiko Sadakata^{1,2}, Eliana Garcia-Cossio¹, Peter Desain¹, James M. McQueen^{1,3}; ¹Donders Institute, Centre for Cognition, Radboud University, Nijmegen, The Netherlands, ²Institute for Logic, Language and Computation, University of Amsterdam, The Netherlands, ³Max Planck Institute for Psycholinguistics, Nijmegen, The Netherlands

F13 Unconscious translation from Japanese kanji to Chinese hanzi by Chinese-Japanese bilinguals: An ERP investigation

Yingyi Luo¹, Yunzhu Wang², Shota Momma³, Hiromu Sakai¹; ¹Waseda University, ²Hiroshima University, ³The University of Maryland

F14 The effects of cross-linguistic phonologic and semantic overlap in masked priming paradigm: behavioral and ERP evidence

Nikolay Novitskiy¹, Myachykov Andriy^{1,2}, Shtyrov Yury^{1,3}; ¹Center for Cognition and Decision Making, National Research University Higher School of Economics, Russian Federation, ²Department of Psychology, Northumbria University, Newcastle upon Tyne, UK, ³Center of Functionally Integrative Neuroscience, Department of Clinical Medicine, Aarhus University, Denmark

F15 Improving foreign language pronunciation with VocalXplorer: an interactive phone application providing immediate and customized auditory feedback.

Anna J Simmonds¹, Laura Simmons¹, Richard J S Wise¹, Robert Leech¹; ¹Imperial College London

Meaning: Lexical Semantics

F16 Electrophysiological registration of body and mental action processing within the thalamus, subthalamic and pedunculopontine nucleus

Miet De Letter¹, Arnout Bruggeman², Kim De Keyser³, Annelies Aerts⁴, Pieter Van Mierlo⁵, Gregor Strobbe⁶, Paul Boon⁷, Dirk Van Roost⁸, Patrick Santens⁹; ¹Ghent University, ²Ghent University, ³Ghent University, ⁴Ghent University, ⁵Ghent University, ⁶Ghent University, ⁷Ghent University, ⁸Ghent University, ⁹Ghent University

F17 Lexical specificity, imageability and emotional arousal modulate the N400 and the N700

Frida Blomberg¹, Mikael Roll¹, Magnus Lindgren¹, Merle Horne¹; ¹Lund University

F18 EEG correlates of word frequency and contextual predictability during reading

Sara C. Sereno¹, Christopher J. Hand², Aisha Shahid³, Hartmut Leuthold⁴; ¹Institute of Neuroscience and Psychology, University of Glasgow, ²Department of Psychology, Social Work and Allied Health Sciences, Glasgow Caledonian University, ³The Quality Assurance Agency for Higher Education, The Open University, ⁴Department of Psychology, University of Tuebingen

F19 Unitary vs. modality-specific semantic knowledge in object perception: On the neural correlates of perceiving pictures, spoken and written words

Friederike Seyfried¹, Mathias Hegele¹, Ina Bornkessel-Schlesewsky²; ¹Neuromotor Behavior Lab, Justus-Liebig University Giessen, ²School of Psychology, Social Work and Social Policy, University of South Australia

F20 Age-related changes in brain activity underlying word and gesture production

Lars Marstaller^{1,2}, Sam Fyenes-Clinton¹, Hana Burianová^{1,3}, David Reutens^{1,2}; ¹Centre for Advanced Imaging, The University of Queensland, Australia, ²ARC Science of Learning Research Centre, ³Department of Psychology, Swansea University, Swansea, UK

Language Development

F21 Segmentation of words from song in 10-month-old infants

Tineke M. Snijders^{1,2,3}, Titia Benders⁴, Paula Fikkert²; ¹Max Planck Institute for Psycholinguistics, Nijmegen, the Netherlands, ²Centre for Language Studies, Radboud University, Nijmegen, the Netherlands, ³Donders Institute for Brain, Cognition and Behaviour, Radboud University, Nijmegen, the Netherlands, ⁴ARC Center of Excellence in Cognition and its Disorders, Macquarie University, North Ryde, Sydney, Australia

F22 Phonological awareness and number-system knowledge in healthy school children: an fMRI study

Katie McMahon¹, Wendy Arnot², Jenny Ziviani¹, Kori Ramajoo³, Rebecca Banney¹, Greig de Zubicaray³; ¹University of Queensland, Brisbane, Australia, ²Hear and Say, Brisbane, Australia, ³Queensland University of Technology (QUT), Brisbane, Australia

F23 Language ability in children born preterm is predicted by arcuate fasciculi microstructure at term equivalent

Piergiorgio Salvan¹, J Donald Tournier¹, Dafnis Batalle¹, Shona Falconer¹, Andrew Chew¹, Nigel Kennea², Tomoki Arichi^{1,3}, A David Edwards^{1,3}, Serena J Counsell¹; ¹Centre for the Developing Brain, King's College London, London, United Kingdom, ²Neonatal unit, St. George's University Hospital NHS, London, United Kingdom, ³Department of Bioengineering, Imperial College London, London, United Kingdom

F24 Electrophysiological Evidence of Sublexical Phonological Access During Character Naming by Chinese-Speaking Children.

I-Fan Su¹, Wei Yan Renee Fung¹, Anna Petrova¹, Sam Po Law¹, Kai Yan Dustin Lau², Lai Ting Chan¹; ¹The University of Hong Kong, ²The Hong Kong Polytechnic University

F25 Top-down Predictions in Statistical Learning Carried by Alpha Oscillations Geoffrey Brookshire¹, Nicholas B. Turk-Browne^{2,3}, Daniel Casasanto^{1,4}; ¹University of Chicago, ²Princeton University, ³Princeton Neuroscience Institute, ⁴Grossman Institute for Neuroscience, Quantitative Biology and Human Behavior

F26 Children born profoundly deaf show typical hemispheric asymmetries in cerebral blood flow during language production Heather Payne^{1,2}, Eva Gutierrez-Sigut^{1,2}, Bencie Wolf², Mairead MacSweeney^{1,2}; ¹Institute of Cognitive Neuroscience, UCL, ²ESRC Deafness, Cognition & Language Research Centre, UCL

Grammar: Syntax

F27 Neuro-computational modelling of lexico-syntactic representation and integration during speech comprehension Hun Choi¹, Billi Randall¹, Barry Devereux¹, Lorraine Tyler¹; ¹Department of Psychology, University of Cambridge

F28 The interaction of syntactic structure and lexical constraints during sentence processing Barry Devereux¹, Billi Randall¹, William Marslen-Wilson^{1,2}, Lorraine Tyler¹; ¹Department of Psychology, University of Cambridge, ²MRC Cognition and Brain Sciences Unit, Cambridge

F29 An investigation of the relationship between the cognitive resources engaged by syntactic and acoustic complexity Megan C. Fitzhugh¹, Peter Whitehead¹, Lisa Johnson¹, D. Caleb Price¹, Corianne Rogalsky¹; ¹Arizona State University, Tempe, AZ

F30 Dynamics of supramodal unification processes during sentence comprehension Julia Udden^{1,2}, Annika Hulstén^{1,2}, Jan-Mathijs Schoffelen^{1,2}, Nietzsche Lam^{1,2}, Gerard Kempen¹, Karl Magnus Petersson^{1,2}, Peter Hagoort^{1,2}; ¹Max Planck Institute for Psycholinguistics, Nijmegen, the Netherlands, ²Donders Institute for Brain, Cognition and Behaviour, Centre for Cognitive Neuroimaging, Radboud University Nijmegen, Netherlands

F31 The relationship between language abilities and brain activity Sarah Weber¹, Susanne Weis¹, Philip Kane², Markus Hausmann¹; ¹Durham University, ²South Tees Hospitals, NHS

Language Disorders

F32 Language impairment profile across distinct clinical variants of amyloid positive early onset Alzheimer's disease Miguel Angel Santos-Santos¹, Andreas Lazaris¹, Gautam Tammewar^{1,2}, Maya Henry¹, Isabel Hubbard¹, Zachary Miller¹, Maria Luisa Mandelli¹, William Jagust^{2,6}, Bruce Miller¹, Gil D. Rabinovici^{1,2,6}, Maria Luisa Gorno-Tempini¹; ¹Memory and Ageing Center, University of California San Francisco, ²Helen Wills Neuroscience Institute, University of California Berkeley, ³Lawrence Berkeley National Laboratory University of California Berkeley

F33 Classification of language impairments in acute aphasic patients Dorothee Kuemmerer¹, Cornelius Weiller¹; ¹Neurology, Faculty of Medicine, University of Freiburg, Germany

F34 Behavioural predictors of functional communication in post-stroke aphasia Brielle Stark¹, Sharon Geva², Elizabeth Warburton¹; ¹University of Cambridge, ²University College London

F35 The effect of the lesion in Broca's area in naming: an MEG study Jeong-Sug Kyong^{1,2}, June Sic Kim^{2,4}, Hyang-Jeong Lee³, Chun Kee Chung^{2,4}; ¹Medical Research Centre, College of Medicine, Seoul National University, Seoul, Korea, ²Human Brain Function Lab., Dept. Neurosurgery, Seoul National University Hospital, Seoul, Korea, ³Internship Research Program for Undergraduate Students, College of Medicine, Seoul, ⁴Dept. Brain and Cognitive Sciences, College of Natural Science, Seoul National University, Seoul, Korea

F36 Lower network efficiency in the speech production network in dyslexia: a resting-state fMRI graph-analysis Mark van den Bunt¹, Ana Francisco¹, Margriet Groen¹, Atsuko Takashima¹, Rogier Mars¹, Ludo Verhoeven¹; ¹Radboud University

Language Genetics

F37 Effects of FOXP2 mutation: abnormal structure of the cerebellum associated with verbal and orofacial dyspraxia Georgios P.D. Argyropoulos¹, Kate E. Watkins², Emma Belton-Pagnamenta¹, Frederique Liegeois¹, Mortimer Mishkin³, Faraneh Vargha-Khadem^{1,4}; ¹Cognitive Neuroscience and Neuropsychiatry Section, Institute of Child Health, University College London, London, UK, ²Department of Experimental Psychology, University of Oxford, Oxford, UK, ³Laboratory of Neuropsychology, National Institutes of Mental Health, Bethesda, Maryland, USA, ⁴Great Ormond Street Hospital for Children National Health Foundation Trust, London, UK

Language Therapy

F38 Changes in dynamic resting state network connectivity following aphasia therapy E. Susan Duncan^{1,2}, Steven L. Small¹; ¹University of California, Irvine, ²Louisiana State University

F39 Investigating microstructural changes of the ipsilateral SLF and ILF underlying speech therapy using advanced diffusion MRI techniques Emilie McKinnon¹, G. Russell Glenn¹, Jens Jensen¹, Joseph Helpert¹, Leonardo Bonilha¹, Julius Fridriksson²; ¹Medical University of South Carolina, ²University of South Carolina

F40 Dementia Patients Demonstrate Reduced Anomia after Parietal tDCS Anodal Stimulation with Language Training Carlos Roncero¹, Erik Service¹, Melanie Malus¹, Shelley Solomon¹, Alexander Thiel¹, Stefan Probst², Howard Chertkow¹; ¹Lady Davis Institute, Jewish Gen. Hospital, McGill University, Montreal, Canada, ²Dept. of Nuclear Medicine, Jewish General Hospital, Montreal, Canada

F41 Design and Validation of a Novel Test to Measure Single Word Reading Speed and Accuracy for an Online Reading Therapy Aikaterini Pappa¹, Alexander P. Leff¹, Zoe V.J. Woodhead¹; ¹University College London

F42 The development of an Auditory Comprehension of Speech Test that will be used in a clinical trial to establish the effectiveness of an auditory comprehension therapy application for patients with impaired speech comprehension caused by a stroke. Maria Maegli¹, Sonia Brownsett¹, Victoria Fleming¹, Alex Leff¹; ¹University College London

F43 The role of dopamine in the comprehension of a simulated cochlear implant speech signal

Velia Cardin^{1,2}, Stuart Rosen³, Kim Coulson¹, Daniel Lametti⁴, Mark Edwards⁴, Bencie Woll¹; ¹Deafness, Cognition, and Language Research Centre, University College London, UK., ²Psychology Department, University of East Anglia, Norwich, UK., ³Speech, Hearing & Phonetic Sciences Department, University College London, UK., ⁴Sobell Department of Motor Neuroscience and Movement Disorders, University College London, UK.

F44 Donepezil improves speech output but not speech comprehension abilities in patients with Wernicke's aphasia.

Victoria Fleming¹, Zoe VJ Woodhead^{1,2}, Jenny Crinion³, Sundeep Teki⁴, William D Penny², Cathy J Price², Alex P Leff^{1,2,3}; ¹Department of Brain Repair and Rehabilitation, University College London, National Hospital for Neurology & Neurosurgery, Queen Square, London, WC1N 3BG, UK, ²Wellcome Trust Centre for Neuroimaging, University College London, 12 Queen Square, London, WC1N 3BG, UK, ³Institute of Cognitive Neuroscience, University College London, 17 Queen Square, London, WC1N 3AR, UK, ⁴Department of Physiology, Anatomy and Genetics, University of Oxford, South Parks Road, Oxford, OX1 3QX, UK

Meaning: Combinatorial Semantics

F45 Concurrent emotional generation and language combination: An event related potential study

Lin Wang¹, Yang Cao¹, Yufang Yang¹; ¹Key Laboratory of Behavioral Science, Institute of Psychology, Chinese Academy of Sciences, Beijing, China

F46 Shared neural circuits subserve processing of reference frames in spatial navigation and language comprehension

Nikola Vukovic^{1,2}, Yury Shtyrov^{1,2}; ¹Center of Functionally Integrative Neuroscience, Institute for Clinical Medicine, Aarhus University, Denmark, ²Center for Cognition and Decision Making, Higher School of Economics, Moscow, Russia

Meaning: Discourse and Pragmatics

F47 Predicting discourse topics: Evidence for the privileged role of the syntactic subject during the comprehension of naturalistic auditory stories using event-related potentials.

Ingmar Brilmayer¹, Katerina Kandylaki², Ina Bornkessel-Schlesewsky³, Matthias Schlewsky³; ¹Department of English and Linguistics, Johannes Gutenberg-University Mainz, Mainz, Germany, ²Department of Bioengineering, Imperial College London, London, United Kingdom, ³Cognitive Neuroscience Laboratory, School of Psychology, Social Work and Social Policy, University of South Australia, Adelaide, Australia

F48 Narrative reading comprehension versus Narrative scene comprehension: An fMRI study

Mariam Sood¹, Martin Sereno^{1,2}; ¹Department of Psychological Sciences, Birkbeck, University of London, ²Experimental Psychology, Division of Psychology and Language Sciences, UCL, 26 Bedford Way, London, WC1H 0AP,

Perception: Orthographic and Other Visual Processes

F49 Effect of word lengths' morphological family size (type frequency) when reading Arabic words in adults

Sharifa Alragam¹, Alexander P. Leff¹, Jennifer T. Crinion¹; ¹University College London

Phonology and Phonological Working Memory

F50 Place and height mismatch in vowels: evidence from an MMN study

Sandra Kotzor^{1,2}, Kai Alter^{1,3}, Beinan Zhou¹, Aditi Lahiri¹; ¹University of Oxford, ²Oxford Brookes University, ³Newcastle University

F51 MMN magnitude reveals asymmetries in phonological encoding: phoneme-specific representations for vowel length in Dutch

Kateřina Chládková¹, Daniel Williams²; ¹University of Leipzig, Germany, ²University of Potsdam, Germany

Signed Language and Gesture

F52 Cortical encoding of sensorimotor and linguistic features in American Sign Language

Matthew Leonard¹, Ben Lucas¹, Shane Blau², David Corina², Edward Chang¹; ¹University of California, San Francisco, ²University of California, Davis

Speech Motor Control and Sensorimotor Integration

F53 Speech error analysis in isolated Apraxia of Speech may reveal subtypes: evidence from two stroke case studies

Claudia Cramer¹, Naianna Robertsson^{1,2}, Stephanie J. Forkel¹, Marco Catani²; ¹Natbrainlab, Centre for Neuroimaging Sciences, Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, UK, ²Natbrainlab, Department of Forensic and Neurodevelopmental Sciences and The Sackler Institute for Translational Neurodevelopment, Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, UK

F54 Exogenous and Endogenous Auditory Prediction in Speech

Douglas Shiller^{1,2,3}, Marc Sato^{4,5}; ¹School of Speech-Language Pathology and Audiology, Université de Montréal, Canada, ²CHU Sainte-Justine Research Centre, Montreal, Canada, ³Centre for Research on Brain, Language and Music, Montreal, Canada, ⁴Laboratoire Parole et Langage, Aix-Marseille Université & CNRS, France, ⁵Brain and Language Research Institute, Aix-en-Provence, France

F55 Speech comprehension and associated lip motor activity are modulated by suppression of premotor cortex

Helen Nuttall¹, Dan Kennedy-Higgins¹, Joseph T Devlin¹, Patti Adank¹; ¹University College London (UCL), London, UK

F56 Age-related differences in language production: The neural correlates of semantic inference, phonological facilitation, and target picture frequency

Michele Diaz¹, Avery Rizio¹; ¹The Pennsylvania State University

F57 Disrupting the speech motor mechanism: exploring left hemisphere specialisation for verbal and manual sequencing using a dual task approach

Jessica C. Hodgson¹, John M. Hudson¹; ¹University of Lincoln, UK

F58 Shared Neural Correlates of Spoken and Written Communication

Marc Sato¹, Marieke Longcamp², Jean-Michel Hupé³, Nathalie Vayssière³, Mathieu Ruiz³; ¹Laboratoire Parole et Langage, Aix-Marseille Université & CNRS, Aix-Marseille France, ²Laboratoire de Neurosciences Cognitives, Aix-Marseille Université & CNRS, Marseille, France, ³Centre de Recherche Cerveau et Cognition, Université de Toulouse & CNRS, Toulouse, France

History of the Neurobiology of Language**F59 Evolutionary origins of non-adjacent rule processing in primate brain potentials**

Alice Milne¹, Jutta Mueller^{2,3}, Adam Attaheri¹, Claudia Männel², Angela Friederici², Chris Petkov¹; ¹Newcastle University, ²Max Planck Institute for Human Cognitive and Brain Sciences, ³University of Osnabrück

F60 Heinrich Sachs on the neurobiology of language

Stephanie Forkel¹, Filip Marcinowski², Anne Fritz³, Henrietta Howells³, Marco Catani³; ¹Natbrainlab, Department of Neuroimaging, Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, UK, ²Department and Psychiatric Clinic of the Warsaw Medical University, Poland, ³Natbrainlab, Department of Forensic and Neurodevelopmental Sciences, Institute of Psychiatry, Psychology and Neuroscience, King's College London, London, UK

Animal Communication**F61 Hyperscaling of frontal white matter in the human brain may be linked to the emergence of language**

Rachel Barrett¹, Flavio Dell'Acqua¹, Tim Dyrby², Kristine Krug³, Marco Catani¹; ¹King's College London, ²Copenhagen University Hospital Hvidovre, ³University of Oxford

Meaning: Prosody, Social and Emotional Processes**F62 Understanding Communicative Intentions via Prosody – Neural Bases and Networks**

Nele Hellbernd¹, Daniela Sammler¹; ¹Otto Hahn Group "Neural Bases of Intonation in Speech", Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig

F63 Neural Correlates of Linguistic Prosody Discrimination in Children

Jennifer Vannest¹, Thomas Maloney¹; ¹Cincinnati Children's Hospital Medical Center

F64 Comprehension of Sentential Prosody in Brain Lesioned Cases: A Test of Two Hypotheses

Venu Balasuramanian^{1,2}, Maureen Costello-Yacano¹, Maha Aldera¹, Judith Koebler¹; ¹Seton Hall University, ²Communication Neuroscience Aphasia Research Laboratory

Methods**F65 Parallel Processing in a Language Task: Estimates from Intracerebral Single Trial Data**

Anne-Sophie Dubarry^{1,2,3}, Anais Llorens^{1,2,3}, Agnes Trébuchon-Da Fonseca^{1,3,4}, Romain Carron⁵, Catherine Liégeois-Chauvel^{1,3}, Christian Bénar^{1,3}, F.-Xavier Alario²; ¹Aix-Marseille Université, Faculté de Médecine La Timone, 13005, Marseille, France, ²Aix-Marseille Université, CNRS, LPC UMR 7290, 13331, Marseille, France, ³INSERM, UMR1106, Institut de Neurosciences des Systèmes, 13005, Marseille, France, ⁴APHM, Hôpital de la Timone, Service de Neurophysiologie Clinique, 13385, Marseille, France, ⁵APHM, Hôpital de la Timone, Service de Neurochirurgie Fonctionnelle, 13385, Marseille, France



Author Index

Authors are indexed by abstract number, not page number. *Italic* indicates first author.

A

Abel, A - A21
Abel, AD - B24
Abel, S - C39
Abubakr, A - B3
Abutalebi, J - E17
Acheson, DJ - E61
Acke, F - D10
Adank, P - D62, D63, F55
Aerts, A - C60, F16
Agmon, G - C49, C50
Agnew, Z - C65
Agostini, B - A63

Aguilar, M - D18
Aguilar, O - B43, D42, E45
Agustus, J - E42
Ahmed, Y - B14
Ala-Kurikka, I - A26
Alario, F-X - C71, F65
Alday, PM - B73, D22, E36
Aldera, M - F64
Allsopp, A - C25
Almaghyuli, A - B69
Almeida, D - D57
Alragam, S - F49

Alter, K - F50
Altman, N - E59
Alyahya, RSW - C43
Anderson, A - D18
Andersson, A - D49
Andriy, M - F14
Angwin, AJ - C68
Antal, C - B21
Argyropoulos, GPD - F37
Arichi, T - F23
Armstrong, A - C20
Arnott, W - F22

Asaridou, SS - A31
Ash, S - A20, D38
Ashaie, S - B20
Assaneo, MF - D61
Atchley, P - E55
Atchley, RA - E55
Attaheri, A - F59
Auer, P - B17, B72
Avants, B - C70
Azevedo, N - E55
Aziz-Zadeh, L - C69

B

Baciu, M - B66
Baez, N - E59
Bains, LJ - E70
Balasuramanian, V - F64
Baldacchino, J - B5
Ball, T - B72
Baltzell, L - E65
Banney, R - F22
Bar, M - A19
Barak, O - B69
Barber, H - A24
Barbieri, E - D31
Barker, MS - B70
Barkley, C - B67
Barnes, G - B43
Barrett, R - F61
Barros, C - E68
Basilakos, A - B46, C40, C63
Bastiaansen, M - E66
Batalle, D - F23
Bauch, A - E28
Başkent, D - D4
Beauchamp, MS - B11
Becker, A - E27
Beelen, C - Slide A2
Bekemeier, N - A1
Bekkering, H - C13
Bellec, P - A18

Bellugi, U - A62
Belton-Pagnamenta, E - F37
Ben-Shachar, M - A37, B32
Bénar, C - F65
Benasich, AA - E31
Benders, T - F21
Bendixen, A - C6
Bennett, M - C47
Benítez-Burraco, A - A41
Berant, E - E47
Beretta, A - B36
Bergmans, B - E39
Bernal, B - E59
Besing, J - B3
Bi, Y - B49, C18, C42, C56, D17
Billig, AJ - C8
Binder, J - D18, D23
Binder, JR - B18
Binney, RJ - B20, C17, D15
Binur, N - E22
Birnbaum, A - B67
Blanco-Elorrieta, E - D48, F11
Blank, H - Slide B3
Blank, I - B47, B50, Slide C1
Blau, S - F52
Blomberg, F - F17
Blumenstein, N - E33
Blumstein, SE - A6

Boardman, E - C25
Bochynska, A - A29
Bockstael, A - D3
Boebinger, D - F8
Bögels, S - E51
Bonhage, CE - A69
Bonilha, L - B46, C40, C63, D43, E38, F39
Bonneh, Y - B32
Bonner, M - D46
Bon throne, AF - A46
Book, DS - B18
Boon, P - C60, F16
Bornkessel-Schlesewsky, I - A56, D22, E36, F19, F47, Slide A4
Borodkin, K - C17
Boros, M - D55
Borowsky, R - A57
Bosch, E - A71
Bosker, HR - D2
Botteldooren, D - D3
Bouchard, K - A64
Boulenger*, V - A7
Bovbjerg, K - D31
Bowers, A - B63, F5
Boye, K - A34
Bradley, C - E59
Bradshaw, A - A65

Brambati, SM - C21, C46
Branzi, F - A19
Branzi, FM - D14
Braun, AR - D37
Brilmayer, I - D22, F47
Brint, E - C4
Brittain, J-S - A65
Broce, I - D64, E59
Brookshire, G - F25
Brotherhood, E - E42
Brothers, T - C24, Slide A3
Brown, S - A9, C58
Brown-Schmidt, S - B50
Brownsett, S - B58, E40, F42
Bruce, R - D40
Bruffaerts, R - E39
Bruggeman, A - C60, D58, F16
Brysbart, M - D10
Bräuer, S - D5
Bulkes, NZ - C20
Bultena, S - C13
Bundgaard, A - D28
Burfein, P - C48
Burianová, H - F20
Bürki, A - D70
Burt, J - A60

C

Cabrera, L - A3, E59
Cai, B - B71
Cai, Q - D10
Caldinelli, C - C41
Callaghan, MF - D42
Canessa, N - D45
Canini, M - E17
Cao, J - C67
Cao, Y - F45
Caplan, D - A42
Cappa, S - D45
Cappelle, B - D32
Cardin, V - F43
Carey, D - D62, D63
Carota, F - E19

Carreiras, M - A11, A15, A24, B28, D14, D53, E32, E58
Carron, R - F65
Casasanto, D - D20, F25
Cash, S - Slide A1
Casillas, M - E51
Caspers, J - D25
Caswell, H - B22
Catani, M - A45, A73, D56, F53, F60, F61
Chabuda, A - D55
Chahboun, S - E44
Chakravarty, T - Slide C4
Chan, LT - F24
Chandrasekaran, B - C2
Chang, E - A64, C64, F52

Chang, EF - C1, Slide B4
Chang, PY-C - E52
Chapleau, M - C46
Chedid, G - C21
Chen, A - C34
Chen, H-C - C33, C67
Chen, K - C42
Chen, S - E48, F1
Chen, SHY - E67
Chen, Y - C42, E21
Cheng, H - F9
Chertkow, H - F40
Chesters, J - A65
Chew, A - F23
Chiarello, C - E5
Chierchia, G - B52

Chiu, F - E7
Chiu, H-C - C67
Chládková, K - B57, E11, F51
Cho, E - C37, C38, D34, D35
Choi, H - F27
Choudhury, N - E31
Chung, CK - F35
Chung, W - C37, C38, D34, D35
Clark, C - E42
Clark, CA - A46
Classen, J - B25
Cloutman, LL - D65
Cohen, L - Slide A1
Coiner, B - C47
Coley-Fisher, H - E40
Conant, D - A64

Conant, L - D18, D23
 Connally, EL - *B64*
 Connelly, A - A27, A28
 Conroy, P - C43
 Conti-Ramsden, G - A27
 Cook, P - A38
 Cooper, E - E21
 Coopmans, C - *C34*
 Coopmans, P - C34

Cope, TE - A40
 Copland, D - C48
 Copland, DA - C68
 Corina, D - *A62*, F52
 Corthals, P - D3
 Coslett, B - C70
 Costa, A - E15
 Costa-Faidella, J - A5
 Costello-Yacano, M - F64

Coulson, K - F43
 Coulthard, A - C48
 Counsell, SJ - F23
 Cousins, K - *A20*
 Cramer, C - *F53*
 Creyaufmueller, M - *C22*
 Crinion, J - B41, B43, B58, D40,
 D42, E40, E45, F44
 Crinion, JT - F49

Crosson, B - C68
 Crutch, S - E42
 Cruzatto da Silva, G - B60
 Cuhna Lima, ML - C53
 Cui, H - C45
 Cui, Z - B49
 Cutler, A - *B5*, D9

D

Dai, B - *D6*
 Danielmeier, C - C13
 Darkow, R - B44
 Dave, S - C24, *Slide A3*
 Davis, B - *E1*
 Davis, C - C44
 Davis, M - A35
 Davis, MH - B55, C26, E71,
 Slide B3
 Dawson, K - D36
 de Almeida, RG - *B21*, *C51*
 Dean, L - A40
 De Deyne, S - B26
 de Diego-Balaguer, R - A67, B29
 Deem, M - D66
 Deferia, A - E59
 Dehaene, S - Slide A1
 Deignan, J - C28
 De Keyser, K - C60, *D3*, *D58*,
 F16
 De Leenheer, E - D10

De Letter, M - C60, D3, D58,
F16
 Delgaizo, J - C40
 Dell'Acqua, F - A73, D56, F61
 Della Rosa, P - E17
 Della Sala, S - A53
 de los Angeles, C - B59
 Del Prato, P - D48
 Demir-Lira, ÖE - A31
 De Mulder, H - A71
 den Ouden, D - C63
 de Paoli, S - D28
 Derdau Sørensen, S - C59
 de Rover, M - D25
 Desai, RH - B18, E50
 Desain, P - F12
 Deschamps, I - C49, E2
 Descoteaux, M - E2
 Desmond, J - Slide C4
 Devereux, B - C7, F27, *F28*
 Devlin, J - F7, Slide C3

Devlin, JT - F55, Slide C2
 De Vos, A - A45, B1, *B2*
 de Zubizaray, G - A60, *A70*, F22
 Dhooge, I - D10
 Diaz, M - *F56*
 Diaz, MT - F9
 Diaz-de-Grenu, LZ - D36
 Di Betta, AM - D54
 Dichter, B - *C64*
 Dick, AS - C31, D64, E2, E59
 Dick, F - C28, E40
 Dicks, G - *D54*
 Diedrichsen, J - C62
 Diekmann, B - *B72*
 Ding, G - B15, B27
 Ding, J - *C42*, C56
 Ding, M - B67
 Dingemanse, M - E6
 Doko, D - D18
 Dong, Y - *E64*
 Dougherty, B - D31

Doumas, LAA - E34
 Dragoy, O - *D45*
 Dreyer, F - B51
 Dreyer, FR - *E20*
 Dries, E - E39
 Drijvers, L - *E12*, E6, *F3*
 Drinkall, R - A40
 Droegge, A - Slide A4
 Dronkers, N - B19
 Drury, JE - A54
 Duarte, R - A52
 Dubarry, A-S - *F65*
 Duff, MC - B50
 Duncan, ES - *F38*
 Dupont, P - B26
 Duñabeitia, JA - A11, A15, E15,
 E32, E58
 Dyrby, T - F61

E

Eberhard-Moscicka, A - C15
 Eberly, L - B67
 Eckert, MA - E5
 Edden, R - Slide C4
 Edwards, AD - F23
 Edwards, M - F43

Egorova, N - A13
 Eigsti, I-M - A47
 Eisenhauer, S - *B56*
 Eisner, F - B74, D9, *E57*, E61
 Ekstrand, C - A57
 El-Dereby, W - B45

El Karoui, I - Slide A1
 Emmorey, K - C61, *D59*, E56
 Escudero, P - B57
 Eshuis, H - E44
 Eulitz, C - A1
 Europa, E - *A43*

Evans, BG - D62, D63
 Evans, G - E21
 Evans, S - C62, E67, F1, F8
 Eviatar, Z - E22

F

Fabiani, E - A75
 Faisal, A - B23, D21
 Falconer, S - F23
 Fan, Y - A30
 Fang, S-Y - B14
 Fang, X - *A25*
 Fang, Y - *B49*, C42
 Farahibozorg, SR - *E21*
 Fargier, R - *A17*
 Faria, A - Slide C4
 Faria, AV - C44
 Fariña, N - *E58*
 Farrell, A - C48
 Faust, M - E47
 Federmeier, KD - C35
 Fedina, O - D45

Fedorenko, E - B47, B50, Slide
 C1
 Feenaughty, L - *B46*, *C40*, C63,
 D43
 Fein, DA - A47
 Feng, G - C33
 Feng, S - *A33*
 Feng, X - B27
 Fernandez-Coello, A - E16
 Fernandino, L - B18, D18, *D23*
 Fernández García, Y - A15
 Ferreira, VS - D48
 Ferré, P - *A18*
 Ferstl, EC - B17
 Feurra, M - C27
 Ficek, B - Slide C4

Fiebach, CJ - B56, D1, E37,
 Slide B1
 Fikkert, P - F21
 Filik, R - E13
 Fischer-Baum, S - D66, E60
 Fitz, H - *A52*
 Fitzhugh, MC - *F29*
 Flecken, M - *A48*
 Fleming, V - B58, F42, *F44*
 Flick, G - *C52*
 Floccia, C - D12
 Flöel, A - B44
 Fogerty, D - C63
 Fonteneau, E - B35, C7
 Forkel, S - *F60*
 Forkel, SJ - A45, D56, F53
 Formisano, E - D9

Fox, N - B62
 Frade, S - *D47*
 Francisco, A - F36
 Frangakis, C - Slide C4
 Franken, MK - *E61*
 Frenck-Mestre, C - E23
 Frenzel, S - Slide A4
 Frid, J - D7
 Fridriksson, J - B46, C40, C63,
 D43, E38, F39
 Friederici, A - C36, F59
 Friederici, AD - B34
 Friedrich, C - C19, E28
 Friedrich, CK - E27
 Fritz, A - F60
 Fung, WYR - B30, F24
 Fynes-Clinton, S - F20

G

Gabarrós, A - E16
 Gabrieli, JDE - B59
 Gagl, B - B56, *D1*

Gajardo-Vidal, A - *E46*, Slide C2
 Galina, S - A69
 Gamez-Djokic, V - *C69*

Gander, PE - C8
 Gansonre, C - *E69*
 Gao, J - C18, D17

Gao, X - C33
 Garcia-Cossio, E - F12
 García-Pentón, L - *A15*

Garic, D - *D64*
 Garrido, L - B4
 Garrod, S - D52
 Gaskell, G - A35
 Geambaşu, A - B57
 Geranmayeh, F - C41
 Gervain, J - A3
 Geva, S - *B38*, F34
 Ghesquière, P - A45, B1, B2,
 Slide A2
 Giber, K - Slide A1
 Gijssels, T - *D20*
 Gil, C - D53
 Gillon Dowens, M - E26
 Glenn, GR - F39

H

Haase, V - C55
 Habel, U - C22
 Hagoort, P - A52, D2, D29, D52,
 D6, E6, E61, E70, F30
 Haigh, Z - D40
 Hakala, T - *B31*
 Halai, A - C43, *D44*
 Hale, J - Slide A1
 Halpin, A - A38
 Halverson, K - B59
 Hamilton, LS - C1, Slide B4
 Hampshire, A - Slide C3
 Han, M - B59
 Han, Z - B49, C42, C56
 Hand, CJ - F18
 Hanna, J - *D32*
 Hansen, S - *A60*
 Hansen, T - A36
 Hardy, C - *E42*
 Harkrider, A - B63, E63, *F5*
 Harris, A - Slide C4
 Harrison, A - B59
 Hartwigsen, G - *B25*
 Hasson, U - E1
 Hauk, O - C26, *D69*, E21

I

Ihnen-Jory, J - A27
 Iljina, O - B72

J

Jackson, R - *D65*
 Jaeger, TF - Slide B2
 Jaeggi, S - B33
 Jagust, W - F32
 Janssen, N - A72
 Jared, DJ - A58
 Jasinska, K - C32

K

Kaczmarek, AR - C52
 Kaiser, A - A74
 Kameyama, C - *E4*
 Kandel, S - A75
 Kandia, D - A66
 Kandylaki, K - F47
 Kane, P - F31

Goetz, C - B59
 Gokcay, D - A23
 Goldin-Meadow, S - A31
 Goldinger, SD - E54
 Golestani, N - A13
 Gomes, AA - E67
 Gong, T - C32
 Goral, M - C17
 Gorno-Tempini, ML - D13, F32
 Goslin, J - D12
 Gotts, SJ - D37
 Gould, L - A57
 Grandchamp, R - *B66*
 Grasso, S - *D13*
 Green, D - A46

Hausmann, M - F31
 Havas, V - *E14*, *E16*
 Hawelka, S - E18, E25
 Hańczur, P - D55
 Heard, A - A22
 Hebert, KP - *E54*
 Hegele, M - F19
 Heikkilä, J - A8
 Heim, S - *B48*, C22, *C57*
 Hélène, L - B66
 Helenius, P - A14
 Hellbernd, N - *F62*
 Helpert, J - F39
 Henderson, R - C48
 Henry, M - B8, D13, F32
 Henseler, I - C36
 Hernandez, G - E59
 Hernandez, JA - A24
 Hernández-Cabrera, JA - A72
 Hervais-Adelman, A - *A13*
 Heyselaar, E - *D29*
 Hickok, G - A62, C5
 Hillen, R - C57
 Hillis, A - Slide C4
 Hillis, AE - C44

Ingeholm, J - D37
 Isaacs, ML - C68

Jasmin, K - *D37*, F8
 Jefferies, E - B69
 Jenkinson, N - A65
 Jensen, J - F39
 Jensen, O - D2, E12
 Jenson, D - B63, E63, F5
 Jerbi*, K - A7

Karaminis, T - *D12*
 Kayser, C - C9, F4
 Kehayia, E - E55
 Keitel, A - C9
 Keller, V - B51
 Kelley, P - B36
 Kempfen, G - F30

Green, DW - D71, E46
 Griffiths, T - E39
 Griffiths, TD - A40
 Grigutsch, M - D67
 Grisoni, L - A66
 Grodzinsky, Y - *C49*, C50
 Groen, M - F36
 Gross, J - C9, F4
 Grossman, M - A20, A38, B48,
 D38, D46
 Grube, M - A40, E39
 Gruber, T - A69
 Grudny, M - C31
 Gu, J - *E48*
 Guediche, S - A6

Hincapié, A-S - A7
 Hiroya, S - *F8*
 Ho, HL - B30
 Hodgson, JC - *F57*
 Hoffman, P - A53, B22, D15
 Hödl, P - C4
 Höhle, B - E53
 Holcomb, P - C61, E56
 Holderer, LM - *A49*
 Holland, R - B41
 Hollo, H - D60
 Hope, TM - D71
 Hope, TMH - *D40*, E46, Slide C2
 Horn, NT - C59
 Horne, M - A61, D7, F17
 Hoskote, A - B38
 Hou, X - C29
 Houde, J - C65
 Houlihan, C - E33
 Hoversten, LJ - C24
 Howard, D - B58
 Howard III, MA - C8
 Howells, H - F60
 Howerton, O - E50
 Hsu, C-H - B40, *C10*

Ivaz, L - *E15*
 Iverson, P - A2, B6, C4

Jester, C - A38, D38
 Ji, Y - E64
 Jo, YJ - A9
 Joannette, Y - A18
 Joannisse, MF - A58
 Johnson, K - Slide B4
 Johnson, L - F29

Kennea, N - F23
 Kennedy-Higgins, D - *E2*, F55
 Kepinska, O - *D25*
 Kerry, S - *B43*, D42, E45
 Kessels, RPC - D29
 Kessler, R - *C19*
 Khalighinejad, B - *B60*, C3

Guerin, J - D71
 Gugler, MF - D27
 Guiraud, H - A7
 Guldner, S - E67, F1
 Guleria, A - B74, E57
 Gullberg, M - D49
 Günther, T - C57
 Gunter, TC - B34
 Guo, Q - C42
 Guosheng, D - C30
 Gutierrez, E - *A10*
 Gutierrez-Sigut, E - F26
 Gutiérrez-Sigut, E - D53
 Gwilliams, L - *B9*
 Gwilliams, LE - C3

Hsu, C-J - D31
 Hsu, N - *B33*
 Huang, C-M - A51, *C66*
 Huang, D - A30
 Huang, H-W - *A51*, C66
 Huang, R - C56
 Hubbard, A - D59
 Hubbard, HI - D13
 Hubbard, I - F32
 Hubbard, RJ - C35
 Hudson, JM - F57
 Huettig, F - *B74*, E24, E57
 Hufford, R - A42
 Hulten, A - *D21*, F30
 Hultén, A - B23, B31
 Humphries, C - D18, D23
 Humphries, CJ - B18
 Huotilainen, M - A4
 Hupé, J-M - F58
 Hurley, R - *E41*
 Hut, S - *A14*
 Hutzler, F - E18, E25

Iyer, S - C47

Johnson, M - D24
 Johnsrude, IS - C8
 Jost, L - C15
 Joubert, S - C21
 Jouravlev, O - A58
 Juncadella, M - E16
 Jung, J - *D19*

Kim, JS - F35
 Kimppa, L - *E30*
 Kingo, OS - D28
 Kiran, S - B65, Slide C1
 Kircher, T - Slide A4
 Kittilstved, T - B63, E63, F5
 Kivisaari, S - D21

Kivisaari, SL - *B23*
 Klein, M - *B25*
 Kleinschmidt, DF - *Slide B2*
 Klepousniotou, E - *C25*
 Klimovich-Smith, A - *B35*
 Klingbeil, J - *D39, D41*
 Knight, R - *B19*
 Koebler, J - *F64*
 Koehnke, J - *B3*
 Kofman, O - *A38*

L

Lachaux, J-P - *B66*
 LaCroix, AN - *E33*
 Laganaro, M - *A17*
 Lahiri, A - *F50*
 Lai, VT - *E50*
 Lakatos, P - *A5*
 Lallier, M - *B28*
 Lam, N - *F30*
 Lam, SS-Y - *B16*
 Lambon Ralph, M - *B69, C43, D19, D44*
 Lambon Ralph, MA - *B22, D15, D65*
 Lametti, D - *A65, F43*
 Lametti, DR - *A9, F7*
 Lammi, L - *D21*
 Lan, Y-J - *B14*
 Landi, N - *C32*
 lanfang, L - *C30*
 Langey, R - *A38*
 Large, I - *C28*
 Lau, A - *C32*
 Lau, JC - *C2*
 Lau, KYD - *B30, F24*
 Lavan, N - *B4*

M

MacGregor, LJ - *A50, C26*
 MacSweeney, M - *A10, C62, D24, E10, E29, F26*
 Maegli, M - *F42*
 Maess, B - *D67, E18*
 Magnusdotir, S - *E38*
 Maguire, MJ - *A21, B24*
 Mai, G - *B10, D8*
 Mäkelä, J - *A14*
 Malagi, A - *E17*
 Maloney, T - *F63*
 Malus, M - *F40*
 Mancini, S - *A24, E32*
 Mandelli, ML - *D13, F32*
 Mani, N - *B61*
 Männel, C - *F59*
 Manouilidou, C - *B54*
 Marantz, A - *B54, B9, C3, C52, E35*
 Marcela, P-B - *B66*
 Marcinowski, F - *F60*
 Marebwa, BK - *D43*
 Marian, V - *B16*
 Marino, S - *B67*
 Marron, T - *E47*
 Mars, R - *F36*

Kontinen, J - *C55*
 Kösem, A - *D2, D6*
 Kothare, H - *C65*
 Kotz, S - *C36*
 Kotz, SA - *E68*
 Kotzor, S - *F50*
 Krass, K - *F10*
 Kraus, N - *B16*
 Kretzschmar, F - *A56, D22, E36*
 Kriegeskorte, N - *E19*

Krishnan, S - *E67, F1, F8*
 Krizman, J - *B16*
 Kroczeck, L - *B34*
 Kroll, JF - *A16, F9*
 Kronbichler, M - *E25, E43*
 Krott, A - *B13*
 Krug, K - *F61*
 Krutwig, J - *F12*
 Krøjgaard, P - *D28*
 Kuemmerer, D - *F33*

Kujala, T - *A26, B37, B39, E30*
 Kumar, U - *B74, E57*
 Kuperberg, G - *B52, C53*
 Kuptsova, S - *D45*
 Kuybu, O - *E41*
 Kyong, J-S - *F35*
 Kyriaki, L - *E36*

Li, G-H - *E9*
 Li, H - *B27, C45*
 Li, L - *B15*
 Li, MYC - *A47*
 Li, P - *A33, B14, B15, D26*
 Li, X - *C11, C56*
 LI, Y - *C14*
 Liberman, M - *D38*
 Lickley, R - *D68*
 Liebenthal, E - *C47*
 Liegeois, F - *A27, A28, A46, F37*
 Lim, L - *D40*
 Lima, C - *D68, E67, F1, F8*
 Lin, E-J - *C10*
 Lin, N - *A55, C42*
 Lin, Y - *E26*
 Lindgren, M - *F17*
 Lindh-Knuutila, T - *B23, D21*
 Lindquist, M - *Slide C4*
 Ling, Z - *D17*
 Lingnau, A - *A63*
 Linnavalli, T - *A4*
 Linzen, T - *B9*
 Liu, M - *C54*
 Liu, S - *D37*

Liu, X - *C7*
 Liuzzi, AG - *B26*
 Liégeois-Chauvel, C - *F65*
 Llorens, A - *F65*
 Lloyd-Fox, S - *D24*
 Lo, S - *A9*
 Lobben, M - *A36*
 Loberg, O - *A8*
 Lockwood, G - *E6*
 Loewenstein, Y - *C50*
 Longcamp, M - *A75, C71, F58*
 Lopez, G - *C31*
 Lorca-Puls, D - *E46*
 Lorca-Puls, DL - *Slide C2*
 Lorentz, E - *A57*
 Lucas, B - *F52*
 Lucchese, G - *B51*
 Ludersdorfer, P - *D40, D71*
 Lukic, S - *A32*
 Lüll, S - *E36*
 Luo, Y - *F13*
 Luthra, S - *A6*
 Lv, Y - *C42*

McMahon, K - *A60, A70, C48, F22*
 McMahon, KL - *C68*
 McMillan, C - *A38, B48*
 McMillan, I - *B45*
 McQueen, J - *D6*
 McQueen, JM - *E61, F12*
 Meade, G - *C61*
 Meinzer, M - *B44*
 Meissner, L - *B51*
 Meltzer-Asscher, A - *A32*
 Men, W - *C18, D17*
 Menenti, L - *D52*
 Meng, X - *B27*
 Mercure, E - *D24*
 Meriläinen, J - *B39*
 Mesgarani, N - *B60, C3*
 Mestre, D - *E23*
 Mesulam, M - *E41*
 Meyer, A - *D2*
 Meyer, L - *A69, B19*
 Michaud, J - *A42*
 Micheli, C - *B11, D30*
 Michel Lange, V - *A34*
 Mickan, A - *C12*
 Mickleborough, M - *A57*

Midgley, K - *C61, E56*
 Mikkola, K - *A26, B39*
 Miller, B - *F32*
 Miller, Z - *F32*
 Millrose, S - *B51*
 Milne, A - *F59*
 Minett, JW - *B10, D8*
 Miozzo, M - *E60*
 Miquel, ME - *D62, D63*
 Mirkovic, J - *A35*
 Mishkin, M - *F37*
 Mishra, R - *B74*
 Mishra, RK - *E57*
 Mohammed, B - *C58*
 Mohr, B - *A66, B51*
 Molimpakis, E - *A9*
 Molinaro, N - *A24, E32*
 Molnar, M - *B7*
 Momma, S - *F13*
 Monette, J - *A54*
 Montembeault, M - *C46*
 Moore, P - *B22*
 Morgan, A - *A28, A46*
 Morgan, AT - *A27*
 Morgan, J - *D54*
 Moschopoulou, E - *C16*

Moseley, R - A66
 Motlagh, S - A66
 Mow, JL - C3
 Muehlhaus, J - C22

Mueller, J - F59
 Mueller, JL - A69
 Mulder, H - C32
 Müller, G - D5

Munoz, J - C31
 Murphy, D - A73
 Murphy, E - A41
 Myachykov, A - C27

Myers, EB - A6

N

Na, W - C30
 Naccache, L - Slide A1
 Nagarajan, S - C65
 Nagels, A - A56, Slide A4
 Nair, NPV - E55
 Nardo, D - B41
 Nelson, M - *Slide A1*
 Nelson, NN - B70

Neophytou, K - B54, B9
 Nestor, PJ - D36
 Nevler, N - D38
 Newman, A - E23
 Newman, S - F9
 Neyens, V - E39
 Nielsen, AH - C59, E69
 Nieuwland, M - B53

Nili, H - E19
 Nilsen, RA - A29
 Niziolek, C - B65
 Noonan, K - B69
 Norris, D - D69
 Norris, DG - E70
 Notaro, G - E1
 Nourski, KV - C8

Novick, J - B33
 Novitskiy, N - F14
 Novén, M - A61
 Nuhbalaoglu, D - B61
 Nunez, AR - D66
 Nuttall, H - F55

O

Oberhuber, M - D40, D71, E46
 O'Brien, K - C48
 O'Neil, K - E23
 O'Nions, E - D68

Ong, Y - B58
 Ong, Y-H - E45
 Orpella, J - A67
 Ortiz-Mantilla, S - E31

Oseki, Y - C52
 Ostarek, M - E24, F8
 Overgaard, M - E69
 Özker Sertel, M - B11

Ozyurek, A - E12, F3

P

Pakhomov, S - B67
 Pallier, C - Slide A1
 Palmis, S - A75
 Pan, H - C47
 Panouillères, MTN - B64
 Papanicolaou, A - D11
 Papeo, L - A63
 Pappa, A - F41
 Park, H - F4
 Park, M-K - C37, C38, D34, D35
 Parker Jones, O - D71, E46
 Parlatini, V - A73
 Perrachione, TK - B59
 Parrish, A - B36
 Parrish, T - A32
 Partanen, E - A26, D28, E30
 Parvizi, J - Slide A1
 Patterson, K - A40, D36, E21
 Payne, H - A10, E29, F26
 Payne, J - C5
 Paz-Alonso, P - D14
 Pazuelo, L - C17

Pedersen, S - A62
 Peelle, J - D46
 Peeters, D - A12
 Peeters, R - B26
 Pejovic, J - B7
 Peleg, O - E22
 Pell, MD - D51
 Penny, W - B43
 Penny, WD - F44
 Peperkamp, S - E62
 Perea, M - D53
 Peressotti, F - E60
 Pérez, A - A11, E58
 Perfetti, C - A25
 Pergandi, J-M - E23
 Peristeri, E - A68
 Pernet, C - A53
 Perniss, P - B62
 Peter, V - B5
 Petersson, KM - A52, F30
 Petkov, C - F59
 Petkov, CI - A40

Petrova, A - B30, E60, F24
 Petrushevsky, A - D45
 Pexman, P - C58
 Pexman, PM - A22
 Peña, E - D13
 Pfenninger, SE - C15
 Phillip, L - E38
 Piai, V - B19
 Pichat, C - B66
 Pigdon, L - A27, A28
 Pillay, SB - B18
 Pinet, S - C71
 Pinheiro, A - E68
 Pliatsikas, C - C16
 Plunkett, K - D12
 Poeppel, D - B9, D61
 Polat, U - B32
 Politzer-Ahles, S - D57
 Ponari, M - D16
 Pons, F - B29
 Prasada, S - C23
 Prejawa, S - D40, D71, Slide C2

Price, A - D46
 Price, C - B41, E10
 Price, CJ - D40, D71, E46, F44,
 Slide C2
 Price, DC - F29
 Probst, S - F40
 Protzner, A - C58
 Protzner, AB - A22
 Provost, J-S - C21
 Prystauka, Y - F10
 Pugh, K - C32
 Pulvermuller, F - B51, D36, E19
 Pulvermüller, F - A36, A66, D32,
 E20
 Pustina, D - C70
 Putkinen, V - A4
 Pylkkänen, L - C52, D48, E49,
 F11
 Pylkkänen, L - E35

Q

Qi, Z - B59, C45

Quinn, C - E71

Quinones, I - A24

R

Rabinovici, GD - F32
 Rączy, K - D55
 Radach, R - C57
 Radua, J - A73
 Raghunathan, P - E17
 Raizada, R - D18, Slide B2
 Rajan, A - E17
 Ramajoo, K - A70, F22
 Ramanujan, K - E17
 Ramsden, S - D40
 Randall, B - F27, F28
 Rapin, L - B66
 Raposo, A - D47
 Rapp, B - Slide C4

Rascovsky, K - A38
 Rastle, K - A37, B55
 Read, S - C48
 Realpe-Bonilla, T - E31
 Reddigari, S - E35, E49
 Regel, S - C36
 Reilly, J - B20, C17
 Reilly, S - A27, A28
 Reiterer, S - F2
 Ren, G - C11
 Reutens, D - F20
 Revill, KP - B68
 Reyes, A - C20
 Rhone, AE - C8

Rice, GE - B22
 Richards, V - C5, E65
 Richlan, F - E25, E43
 Richter, M - E53
 Riddell, C - D37
 Rieger, J - D30
 Rieger, JW - B11, D5
 Riggs, K - D60
 Riley, S - C53
 Ripollés, P - B29
 Rizio, A - F56
 Roberts, R - D68
 Robertsson, N - D56, F53
 Robinson, GA - B70

Robson, H - A40, B58
 Rodd, J - A49
 Rodd, JM - C26
 Rodríguez-Fornells, A - E16
 Roelofs, A - E66
 Roesler, CP - E31
 Rogalski, E - E41
 Rogalsky, C - E33, F29
 Rohrer, J - E42
 Roll, M - A61, D7, F17
 Romoli, J - B52
 Roncero, C - F40
 Röpke, S - A66

Rorden, C - B46, C40, C63, D43, E38
Rosen, S - F43
Rossi, E - F10, *F9*

Rossi, S - *D27*
Rothermich, K - *D51*
Rouleau, I - C21, C46
Rowe, JB - A40

Roxbury, T - *C48*
Ruhnau, P - E18
Ruigendijk, E - D30
Ruiz, M - F58

Russell, L - E42
Ruthven, M - D62

S

Sadakata, M - F12
Saddy, JD - C16
Sadowska, A - D55
Saji, R - E4
Sakai, H - F13
Salan, J - C31
Saldaña, D - E44
Salillas, E - B12
Salmelin, R - B23, B31, D21
Saltukaroglu, T - F5
Saltuklaroglu, T - *B63*, E63
Salvan, P - *F23*
Sammler, D - *D67*, F62
Sánchez, B - C5
Sanchez, Y - B59
Santens, P - C60, D3, D58, F16
Santi, A - D47
Santos-Santos, MA - *F32*
Sanz-Torrent, M - B29
Sass, K - A70, C22
Sassenhagen, J - B73, D1, *E37*, *Slide B1*
Sato, M - F54, *F58*, F6
Saur, D - B25, D39, D41
Scaltritti, M - C71
Schaefferbeke, J - E39
Scharinger, M - C6, E3
Schepers, IM - B11, D5
Schild, U - E28
Schiller, NO - D25
Schindler, I - D60
Schlesewsky, M - A56, D22, E36, F47, *Slide A4*

Schluter, K - *D57*
Schmid, H-J - E52
Schmitt, JM - *B17*
Schneider, J - *B24*
Schneider, JM - A21
Schneider, P - F2
Schoffelen, J-M - E61, E66, F30
Schoot, L - *D52*
Schremm, A - *A61*
Schriefers, H - E66
Schroeder, CE - A5
Schulze-Bonhage, A - B72
Schuster, S - *E25*
Schwartz, J-L - B8, F6
Schwartz, M - C70
Scott, S - D68, E67, F1
Scott, SK - F8
Sebastian, R - *C44*
Segaert, K - D29, D52, E70
Seghier, ML - D40, D71, E46, *Slide C2*
Seidman, LJ - C45
Seither-Preisler, A - F2
Sener, N - A66
Sereno, M - F48
Sereno, SC - *F18*
Service, E - F40
Sethi, VV - *Slide C2*
Sevcikova Sehyr, Z - *E56*
Seyfried, F - *F19*
Shafer, V - C23
Shahid, A - F18
Shahid, H - C44
Shallice, T - D16
Shang, N - E8
Shantz, K - C20
Sharoh, D - *E70*
Sharpe, V - *E35*
Shebani, Z - *D36*
Shenton, ME - C45
Shetreet, E - *B52*
Shiller, D - *F54*
Shin, J-A - C37, C38, D34, D35
Shitova, N - *E66*
Shpektor, A - C27
Shtyrov, Y - *A50*, C27, D28, E30, E69, F46
Shu, H - C54
Shuai, L - *C32*
Siebner, H - A34
Silbersweig, D - C47
Silburn, PA - C68
Simmonds, AJ - *F15*
Simmons, L - F15
Singh, JP - B74, E57
Singh, N - *E17*
Sjerps, MJ - *Slide B4*
Skeide, M - B74
Skipper, JJ - A9, *F7*
Skoruppa, K - A2
Sliwinska, M - *Slide C3*
Small, SL - A31, C31, F38
Snijders, TM - *F21*
Soderstrom, P - *D7*
Solodkin, A - C31
Solomon, S - F40

Sommer, J - *Slide A4*
Song, J - *B6*
Song, L - C56
Sood, M - *F48*
Spychalska, M - *C55*
Srinivasan, R - E65
Stahl, B - B51
Stark, B - *B42*, B46, *F34*
Steffener, J - A18
Steinbach, M - B61
Steinberg, J - C6, *E3*
Stern, E - C47
Stern, Y - A18
Stevens, MC - A47
Stockall, L - B54
Stockert, A - B25, D39, *D41*
Stolk, A - D52
Storms, G - B26
Strauss, A - *B8*
Strobbe, G - C60, F16
Struiksmma, M - *A71*, C34
Styles, SJ - *E8*
Su, C-IE - *E9*
Su, I-F - *B30*, *F24*
Su, L - C7
Su, M - A28
Sumera, E - D55
Sun, X - *B15*
Sun, Y - *E62*
Suros, A - C31
Swaab, TY - C24, *Slide A3*
Swettenham, J - D50
Szwed, M - D55

T

Tager-Flusberg, H - B59
Takashima, A - F36
Talsma, D - D3
Tam, A - A18
Tammewar, G - F32
Tan, Y - A39
Tang, C - *C1*
Tang, Y - C45
Tanner, D - *C20*
Taroyan, N - D54
Taubert, S - C48
Taylor, JR - B71
Taylor, JSH - A37, *B55*, E71

Tchir, S - C31
Teickner, C - *E27*
Teki, S - F44
Ternes, K - B48
Tervaniemi, M - A4
Tessier, M-H - E2
Thiebaut de Schotten, M - A73
Thiede, A - A26, B39
Thiel, A - F40
Thierry, G - C14
Thomas, D - E42
Thompson, CK - A32, A43, D31
Thompson, H - *B69*

Thornon, D - F5
Thornton, D - B63, *E63*
Thors, H - E38
Thut, G - F4
Thwaites, A - C7
Tian, M - B27
Tiippana, K - A8
Tournier, JD - F23
Traxler, MJ - C24
Treder, MS - D69
Treille, A - *F6*
Tremblay, P - E2, F6
Tripathi, VN - B74, E57

Trébuchon-Da Fonseca, A - F65
Tsai, J-L - E9
Tsapkini, K - A68, *Slide C4*
Tsimpli, I-M - A68
Tuomainen, J - *D50*, E7
Turk-Browne, NB - F25
Turker, S - *F2*
Twomey, T - *E10*
Tyler, L - F27, F28
Tzeng, OJ-L - A51
Tzeng, Y-L - *B40*

U

Udden, J - *F30*

Uhlmann, M - A52

Ullas, S - *D9*

V

Vaden, KI - E5
Vainio, M - E30
Valle-Lisboa, JC - B28
Vallila-Rohter, S - *Slide C1*
van Bergen, G - A48

van Berkum, J - A71
Vandenberghe, R - B26, E39
van den Broek, D - A52
van den Bunt, M - *F36*
Vanderauwera, J - *A45*, *Slide A2*

Van der Haegen, L - *D10*
Vandermosten, M - *Slide A2*
Vandermosten1, M - A45
Van Dyke, J - A39
van Hees, S - *C58*

van Hell, JG - A16
van Heuven, WJB - E13
Van Mierlo, P - C60, F16
van Mourik, T - E70
Vannest, J - *F63*

Van Roost, D - C60, D58, F16
 VanRullen, R - A5
 van Vliet, M - D21
 Vanvooren, S - B1, B2
 Vargha-Khadem, F - B38, F37
 Varkanitsa, M - A44
 Vayssière, N - F58

Velay, J-L - A75
 Venezia, J - C5
 Vergara-Martinez, M - D53
 Verhoeven, L - F36
 Vias, C - C31
 Viding, E - D68
 Vigliocco, G - B62, D16

Vignali, L - E18
 Vilain, C - F6
 Vinals, L - A35
 Vingerhoets, G - D10
 Vinson, D - B62, D16
 Violante, I - Slide C3
 Virtala, P - A26, B39

Vogel Eyny, A - C17
 von Tongeln, F - C57
 Vukovic, N - C27, F46
 Vulchanov, V - A29, E44
 Vulchanova, M - A29, E14, E44

W

Wagner, A - B5, D4
 Walenski, M - D31
 Wallentin, M - C59
 Walvoort, SJW - D29
 Wambacq, I - B3
 Wang, C - B67
 Wang, F - A59
 Wang, J - C45, C67, E48
 Wang, K - C56
 Wang, L - F45
 Wang, R - B15
 Wang, S - A30, C33
 Wang, WS-Y - B10, D8
 Wang, X - A30, B49, C54, D17, D17, D18
 Wang, Y - F13
 Wang, Y-Y - A51, C66
 Warburton, E - B42, F34
 Warren, J - A49, E42

Wartenburger, I - E53
 Waters, D - E10
 Waters, G - A42
 Watkins, K - C41
 Watkins, KE - A65, B64, F37
 Wawrzyniak, M - B25, D39, D41
 Wayne, R - A10
 Webb-Vargas, Y - Slide C4
 Weber, A - C19
 Weber, K - D30, E70
 Weber, S - F31
 Weekes, B - E17
 Wehling, E - C69
 Wei, D - E26
 Weiller, C - F33
 Weis, S - F31
 Weisberg, J - D59
 Weisholtz, D - C47
 Weiss, AF - A56

Weisz, N - E18
 Wen, Y - E13
 Werning, M - C55
 Westley, A - D50
 Wexler, K - B59
 Whitehead, P - F29
 Whitfield-Gabrieli, S - C45
 Wienholz, A - B61
 Wiese, R - Slide A4
 Wiest, P - B72
 Wild, CJ - C8
 Williams, D - E11, F51
 Williams, S - D19
 Willmes, K - C39
 Wilson, B - A40
 Wilson, M - C21
 Wingfield, C - C7
 Wise, R - Slide C3
 Wise, RJS - C41, F15

Wisman Weil, L - B59
 Wlotko, EW - C53
 Woll, B - F26, F43
 Wong, A - C48
 Wong, AW-K - C67
 Wong, PC - C2
 Wong, S-S - C67
 Woodhead, Z - B43, D42, E45
 Woodhead, ZV - F44
 Woodhead, ZVJ - F41
 Woodland, P - C7
 Woollams, A - B45, D44, E21
 Worster, E - E29
 Wouters, J - A45, B1, B2, Slide A2
 Wrede, K - B25, D39, D41
 Wright, A - C44
 Wu, W - D17
 Würtz, A - B44

X

Xiangzhi, M - C30

Xie, W - B27

Xu, N - C29

Xu, Y - C18, D37

Y

Yablonski, M - A37, B32
 Yang, J - A33, C54, D26
 Yang, Q - C42
 Yang, X - A55, B27, C11

Yang, Y - A33, A55, E48, F45
 Yao, B - B71
 Ye, F - D66
 Yee, E - B7

Yoshor, D - B11
 Yourganov, G - C63, D43, E38
 Yuceil, S - A23
 Yue, Q - D66

Yury, S - F14

Z

Zane, E - C23
 Zappa, A - E23
 Zavyalova, V - D45
 Zeitlin, M - C53
 Zevin, JD - C54
 Zhang, C - C7

Zhang, L - E53
 Zhang, M - B27
 Zhang, T - C45
 Zhang, W - A30, C33
 Zhang, Y - A30
 Zhao, B - C29

Zhao, W - D60
 Zhengke, W - C30
 Zhong, F - E64
 Zhou, B - B13, F50
 Zhu, Z - C29
 Zirnstein, M - A16

Ziviani, J - F22
 Zoefel, B - A5
 Zuckerman, B - B20
 Zugarramurdi, C - B28
 Zur, N - E22

ROGUE RESOLUTIONS

Integrated Solutions for Neuroscience

Rogue Resolutions are uniquely placed with technical expertise across a comprehensive and versatile portfolio of neuroscience devices. We bring together and integrate technologies, techniques and services. This enables our customers to conduct robust, credible, replicable and cutting edge research particularly using multi-modal techniques.

Brainsight® TMS Navigation

*the definitive neuronavigation system installed in over 400 labs globally.
Enables accurate and repeatable positioning of any TMS coil over a
target brain location based on subject's MRI.*

DuoMAG™ TMS

*single pulse, paired-pulse and repetitive pulse magnetic stimulation
devices supported by a complete range of circular and figure-8 coils.*

neuroConn tDCS

*products for electrical stimulation: double-blind sham
control, random noise, HD-tDCS, MRI-compatible.*

TruScan® TMS-EEG

*advanced system with unrivalled artefact recovery
to measure EEG brain response from 2.5ms.*

*Brainsight® NIRS, Galileo™ tactile stimulus
Smart Eye® eye tracking and more...*

We also have an exciting series of hands-on
workshops and research prizes.
Visit **www.rogue-resolutions.com** for more details.

The Creative Quarter, 8a Morgan Arcade, Cardiff CF10 1AF, UK



presentation[®]

stimulus delivery + experiment control
for behavioral science

Speech recognition & voice triggers

Precise audio delivery & synthesis

Hardware interfacing

Sign up for a free trial today!

neurobs.com

Coming soon! Presentation for Android and iOS!

Sign up for beta testing & try out our free app with pre-programmed experiments: *Psych Lab 101* is available on the App Store or in the Google Play Store.

Our sincere thanks to the many members of the Society for Neurobiology of Language who use Presentation for their experiments.

Notes

[illegible]

Notes

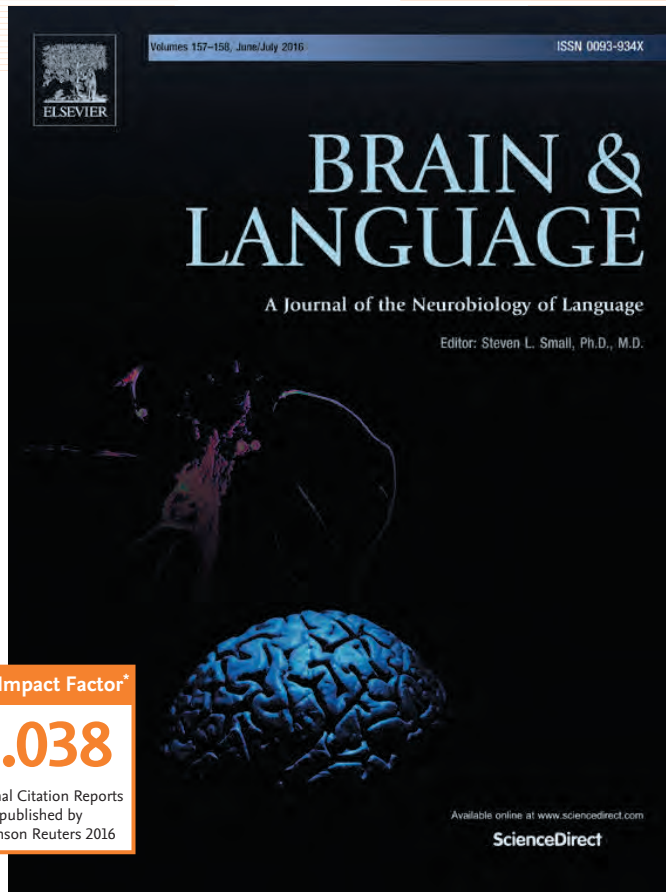
[illegible]

Notes

[illegible]



OVER 400,000
ARTICLE DOWNLOADS IN 2015



Supports Open Access

Brain & Language

The publication for the
Neurobiology of Language

Editor-in-Chief: Steven Small

University of California at Irvine, USA

About the journal

An interdisciplinary journal, *Brain and Language* focuses on the **neurobiological mechanisms** underlying **human language**. The journal covers the large variety of modern techniques in **cognitive neuroscience**, including lesion-based approaches as well as functional and structural brain imaging, electrophysiology, cellular and molecular neurobiology, genetics, and computational modeling.

All articles must relate to human language and be relevant to an elaboration of its neurobiological basis. Along with an emphasis on neurobiology, journal articles are expected to take into account relevant data and theoretical perspectives from **psychology** and **linguistics**.

Submit your paper at:
journals.elsevier.com/brain-and-language



The 8th Annual Meeting of the Society for the Neurobiology of Language

*August 17-20, 2016
London, England*



Language,
Cognition and
Neuroscience

Editor in Chief
Lorraine K. Tyler



Routledge
Taylor & Francis Group

BRAIN & LANGUAGE

A Journal of the Neurobiology of Language
Volume 100, Number 1, April 2016

