# TABLE OF CONTENTS

Overview ...................................................................................................................................................... 1

Commemorating the 3rd Epoch of Aphasia Research: 50 Years since the Founding of the Academy of Aphasia ................................................................. 10
  Marjorie Lorch

The Phrenological Construct of Language ..................................................................................................... 12
  Harry Whitaker

The Neural Basis of Reversible Sentence Comprehension ................................................................................. 13
  Malathi Thothathiri, Myrna Schwartz

Automated Anatomic Classification of Primary Progressive Aphasia ............................................................ 15
  Andrea V. Faria, Jennifer Crinion, Richard Leigh, Michael Miller, Susumu Mori, Argye Ehills

SYMPOSIUM: Neuropsychology, Neuroimaging and Neuropysiology of Compound Processing .................. 17
  Claudia Lazzati, Carlo Semenza

Headedness and Whole-Word Effects in Compound Processing: Evidence from Neuropsychological Studies .................................................................................................................. 18
  Marco Marelli, Silvia Agegijaro, Franco Molteni, Giuss Zonca, Claudia Lazzati

Irreversible Binomials: Evidence from Neglect Dyslexia ................................................................................. 20
  Giorgio Arcara, Graziano Lacaia, Elisa Mattaloni, Sara Mondini, Paola Benincà, Carlo Semenza

The Neural Basis of Compound Word Processing: Evidence from ERPs and fMRI ....................................... 22
  Dirk Koester

Probing the Compositional Processing of Compound Words: Electrophysiological Evidence ...................... 24
  Robert Fiorentino

Neuropsychology, Neuroimaging, and Neuropsychology of Compound Processing ...................................... 26
  Gonia Jarema

Persistent Cortical Deafness: A Case Report .................................................................................................... 27
  Jessica Rigon, Marianna Cavinato, Irene Battel, Margherita Pivi, Francesca Meneghelli, Carlo Semenza

fMRI of Speech Production in a Case of Pure Word Deafness ..................................................................... 29
  Randi C. Martin, A. Chris Hamilton, L. Robert Slevc

‘Are there Lexicons?’ A Study of Lexical and Semantic Processing in a Subject with Word-Meaning Deafness Suggests ‘Yes’ ........................................................................................................... 31
  Tobias Borman, Cornelius Weller

Psychometric Properties of the Pyramids and Palm Trees Test ..................................................................... 33
  Gerasimos Fergadiotis, Heather Wright, Gilson Capilouto

A Case Series Comparison to Investigate the Comprehension Impairment in Wernicke’s Aphasia ................. 35
  Holly Robson, Matthew Lambon Ralph, Karen Sage

Compound Production and Comprehension in Aphasia: Data from English and Finnish ......................... 37
  Seija Pekkalta, Mia Ikikala, Arpita Bose, Susanne Borgwaldt

Functional Integration of Semantic Feature Analysis Therapy in Chronic Aphasia ......................................... 39
  Karine Marcotte, Daniel Adrover-Roig, Brigitte Damien, Mathilde De Préamont, Suzanne Génèreux, Michelyne Hubert, Vincent Perlberg, Habib Benali, Ana Inés Ansald

Can Morphological and Phonological Deficits be Distinguished in Word Production? ................................. 41
  Michele Miozzo, Brenda Rap

On-line Morpho-Syntactic Processing in the Healthy and Aphasic Brain ..................................................... 43
  Laurence Schneider, Ulrike Toepel, Micah M. Murray, Stephanie Clarke

Noun-Verb Distinction as a Consequence of Antisymmetry: Evidence from Primary Progressive Aphasia .................................................................................................................. 45
  Ludovico Franco, Elisa Zampieri, Martina Garzon, Francesca Meneghelli, Anna Cardinaletti, Carlo Semenza

Tense / Aspect Category in Fluent and Non-Fluent Polish and German Aphasia ........................................ 47
  Roma Wieczorek, Walter Huber, Robert Darkow

Past Tense Production by Greek-Speaking Patients with Parkinson’s Disease ............................................... 49
  Stavroula Stavrakaki, Zoe Katsarou, Sevasti Bostantzopoulou, Harald Clahsen

Nominalization in Aphasia: A Case Study ....................................................................................................... 51
  Chiara Zanini, Serena De Pellegrin, Carlo Semenza

Cognitive Deficits in Patients with Gliomas in Eloquent Areas Before and After Awake Surgery .................. 53
  Evy Visch-Briek

Perceived Sense of Effort and Dual-Task Performance for Fluent and Nonfluent Individuals with Aphasia ................................................................................................................................................. 55
  Alexandra Basilakos, Rebecca Shisler Marshall, Ellen Orenstein
An Investigation of Use of Non-Verbal Behaviors Among Individuals With Aphasia in Hong Kong:

Preliminary Data ................................................................. 57

Anthony Pak Hin Kong, Sam Po Law, Alice Lee

Lateralization of Irony Processing ........................................ 59

Maud Champagne-Lavau, Marie-Claude Desautels, Yves Jeanette

Right Brain Damage, Theory of Mind and the Use of Reference Terms .............................................. 61

Noga Balaban, Naama Friedmann

Relationships between Cognitive Abilities and Language Processing: Evidence from Childhood

Traumatic Brain Injury .......................................................... 63

Jason Crowther, Gerri Hanten, Xiaqi Li, Paul Swank, Sandra Chapman, Maureen Dennis, Linda Ewing-Cobbs,
Marcia Barnes, Harvey Levin

Memory Deficits in Aphasia .................................................... 65

Dimitrios Kaselimesis, Constantin Potagas, Athanasios Protopapas, Ioannis Evdokimidis

An Interference Method to Investigate Working Memory in Greek-Speaking Patients with Broca's Aphasia ................................................................. 66

Eleni Peristeri, Ianni-Maria Tsimpli

Role for Phonological Short-Term Memory in the Task Switching Component of Executive Function .......... 68

Corinne Allen, Randi Martin

Short-term Memory and Language Processing: Extending an Interactive Model to Capture Sentence-Level Data ................................................................. 70

Valantis Fyndanis

Effects of Increased Working Memory Load on Performance of Language Tasks in Aphasia ................... 72

Nadine Martin, Francine Kohen, Micheline Kalinyak-Fliszar

Word Learning Ability is Correlated with Phonological Working Memory Improvement after Temporal Lobe Resection ............................................. 74

Maria Apostolidou, Vasiliki Siatra, Maria Gini, Elvira Masouera, Nikos Foroglou, Kyrra Tsapkinia

On the Production of Sandhi Phenomena in French Aphasic Speakers with Impaired Phonological/Phonetic Encoding .................................................... 76

Marina Lagounaro, Odile Bagou, Violaine Michel, Géraldine Dayer, Laurence Schneider

Density Pervades: An Analysis of Phonological Density Effects in Aphasic Speakers with Different Types of Naming Impairment .............................................. 78

Erica Middleton, Myrna Schwartz

Aphasic Errors and Phonological Universals: Contrasting Patterns in Patients with and without Articulatory Difficulties .................................................. 80

Cristina Romani, Claudia Galluzzi

Words and Numbers in the Phonological Output Buffer ........................................................................ 82

Dror Dotan, Naama Friedmann

What is the Role of the Uncinate Fasciculus? ......................................................................................... 84

Leonor Josefinna Romero Lauro, Christiano Miracapillo, Alessandra Casarotti, Lorenzo Bello, Costanza Papagno

Tracking the Arcuate Fasciculus in Patients with Aphasia ...................................................................... 86

Suzanne Schnell, David Copland, Shiree Heath, Sophia Van Hees, Anna Holmes, Greig Do Zubicaray, Katie McMahon

Neural Basis of Semantic and Syntactic Interference Resolution in Sentence Comprehension ............... 88

Yi Guo, Randi Martin, Chris Hamilton, Julie Van Dyke, Yingying Tan

Category Naming Effects during Intraoperative Language Mapping ..................................................... 90

Donna Bandur, Andrew Parrent, David Steven, Kevin Wang, Sandrine Denisbaupierre, Leslie Lerch

Neural Substrates of Naming Following Semantic Verification in Aphasia .............................................. 92

Anna Holmes, Shiree Heath, Katie McMahon, Lyndsey Nickels, Anthony Angwin, Sophia Van Hees, David Copland

The Neural Correlates of Morphosyntactic Processes: A MEG Study of Noun and Verb Homophones .......... 94

Styliani Tsiga, Christos Papadelis, Christoph Braun, Gabriele Miceli

Subcortical Global Aphasia Without Hemiparesis: A Discussion .......................................................... 96

Gopee Krishnan, Shivani Tiwari, Aparna Pai, Soorya. N. Rao

Variability in Aphasia: A Neurophysiological Perspective ................................................................. 98

Kathleen Brumm, Michelle Gravier, Lewis Shapiro, Tracy Love

Neural Correlates of Lexical Retrieval in Aphasic Spontaneous Language: A Single Case Study .................. 101

Eva Tillmanns, Elisabeth Meffert, Stefan Heim, Tobias Frauenrath, Walter Huber, Katrin Anwents, Marion Grande

Electrophysiological Correlates of Naming Facilitation in Aphasia ..................................................... 103

Anthony Angwin, Shiree Heath, Anna Holmes, David Copland

Lexical Syntactic Features in Single Word Retrieval: How Important are They? Evidence from Aphasia ................................................................. 105

Rachel Browne, Susan Edwards
<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency and Word-Length Factors and Lexical Retrieval in Sentence Production in Aphasia</td>
<td>107</td>
</tr>
<tr>
<td>Oral Language: What is Normal?</td>
<td>109</td>
</tr>
<tr>
<td>Coherence in Stories Told by Adults with Aphasia</td>
<td>111</td>
</tr>
<tr>
<td>Lexical Efficiency of Oral Narratives Produced Two Times in Succession</td>
<td>113</td>
</tr>
<tr>
<td>Neural Substrates and Timecourse of Phonological Facilitation in Aphasia</td>
<td>117</td>
</tr>
<tr>
<td>Language-Stuttering Relationship</td>
<td>119</td>
</tr>
<tr>
<td>From Aphasia to Neurogenic Stuttering: A Case Study</td>
<td>121</td>
</tr>
<tr>
<td>The Effects of Unfamiliar Speaker Accent on Story Recall in Adults with Aphasia</td>
<td>123</td>
</tr>
<tr>
<td>Effect of Intonation on Tone Production in Cantonese Speakers with Aphasia</td>
<td>125</td>
</tr>
<tr>
<td>Abstract Phonemic Representations Affect Speech Production: Evidence from Speech Impairment</td>
<td>128</td>
</tr>
<tr>
<td>Tone Discrimination as a Window into Acoustic Perceptual Deficits in Parkinson's Disease</td>
<td>130</td>
</tr>
<tr>
<td>A Large, Searchable, Web-based Database of Aphasic Performance on Picture Naming and Other Tests of Cognitive Function</td>
<td>132</td>
</tr>
<tr>
<td>A Behavioral and Anatomical Analysis of Associative Semantic Errors in Picture Naming</td>
<td>134</td>
</tr>
<tr>
<td>Lexical and Morphological Dissociations Between Nouns and Verbs: Behavioral and Neuroanatomical Data</td>
<td>137</td>
</tr>
<tr>
<td>Effects of Grammatical Class and Morphological Structure in Chinese: A Mixed Logit Model Study on Picture and Word Naming</td>
<td>139</td>
</tr>
<tr>
<td>Error Profiles of Dyslexic and Non Dyslexic Children in Their L1 (Greek) and L2 (English)</td>
<td>141</td>
</tr>
<tr>
<td>Phonological and Morpho-Syntactic Abilities in Developmental Dyslexia and Specific Language Impairment: A Comparative Approach</td>
<td>143</td>
</tr>
<tr>
<td>Subtypes of Developmental Surface Dysgraphia</td>
<td>145</td>
</tr>
<tr>
<td>Developmental Graphemic Buffer Dysgraphia</td>
<td>148</td>
</tr>
<tr>
<td>The Neurotopography of Written Language Production: The Distribution of Sensitivity to Length and Frequency</td>
<td>150</td>
</tr>
<tr>
<td>Argument Structure Processing in Deep Dyslexia: The Effect of the Number of Arguments in a Verb Naming Task</td>
<td>152</td>
</tr>
<tr>
<td>Why Does a “Moglie” (Wife) Become a “Maiale” (Pig)? An Investigation of Factors Affecting Reading Performance in a Case of Visual Dyslexia</td>
<td>154</td>
</tr>
<tr>
<td>What Letters Can “Learn” from Numbers or Writing Y with a Cocktail Glass - a Single Case fMRI Study of Peripheral Frontal Agraphia</td>
<td>156</td>
</tr>
<tr>
<td>Recovery of Language and Reading in Post-CVA Aphasia: A Longitudinal Study</td>
<td>158</td>
</tr>
</tbody>
</table>
   Irene Ablinger, Kerstin Schautka, Ralph Radach, Walter Huber
Successful Recovery of Reading in the Right Fusiform Despite Intact Left Fusiform ............................................................ 162
   Kyriana Tsapkini, Olivier Dufor, Andreira Faria, Susumu Mori, Argye Hills
Development of a Test of Effects of Syntactic Comprehension Disorders on Discourse Comprehension .......................... 164
   Joshua Levy, Swathi Kiran, David Caplan, Alex Berardino, Chaleece Sandberg
Modelling the Breakdown of Sentence Comprehension in Aphasia .................................................................................. 166
   Uli Grasemann, Swathi Kiran, Chaleece Sandberg
The Effect of Thiamine Deficiency in Infancy on the Development of Syntactic and Lexical Abilities ................................. 168
   Nauma Friedmann, Iris Fattal, Asiva Fattal-Valevski
Lexical-Syntactic Information in Aphasia: Verb Complementation Frames in Production and Repetition Tasks ................ 170
   Michael Biran, Nauma Friedmann
Order of Occurrence of Nouns in Severe Agrammatic Sentence Production .................................................................. 172
   Jacqueline Ann Stark, Christianes Pons
A Panoramic View of Language in an Adult with Agrammatic Aphasia: Some Clinical Implications ................................. 174
   Venu Balasubramanion, Cortney Carey
The Processing of Unaccusativity by Eight Greek-Speaking Agrammatic Patients ................................................................. 176
   Eleni Peristeri, Ianni-Maria Tsimpili, Kyriana Tsapkini
Clitics in Greek Aphasia: Evidence from Production and Grammaticality Judgment ............................................................. 178
   Michaela Nerantzini, Despina Papadopoulo, Spyridoula Varlokosta
Grammatical Abilities in Greek-Speaking Patients With Alzheimer's Disease ................................................................. 180
   Polyxeni Konstantinopoulou
Error Patterns of Greek Aphasic Speakers in Sentence Completion and Grammaticality Judgment .................................... 181
   Spyridoula Cheimarios, Spyridoula Varlokosta, Alexandra Economou, Maria Kakavoula, Athanassios Protopapas
Agrammatism in Jordanian-Arabic Speakers ....................................... 183
   Yussuf Albustani, Liza Milman, Robert Fox, Michelle Bourgeois
Distinctiveness of Anomia in Alzheimer's Disease and Semantic Dementia: A New Wrinkle on the Access-Storage Debate... 185
   Jamie Reilly, Sharon Antonucci, Jonathan Peelie, Murray Grossman
Naming Deficits in Dementia of the Alzheimer Type: Semantic Breakdown or Lexical Access Deficit? ............................. 187
   Anne-Laure Mace, Nicole Caza
Effects of Semantic and Phonological Relatedness on Word List Recall: A Case Study in Semantic Dementia and Alzheimer's Disease ................................................................. 189
   Hyejin Park, David Bion, Nadine Martin, Jamie Reilly
Effectiveness of Semantic versus Phonological Cues in Semantic Dementia ................................................................. 191
   Regina Jokel, Nicole Anderson
Verb Retrieval and Inflection in Fluent Aphasia and Semantic Dementia: Insights from Different Verb Classes in Greek ........ 193
   Vasiliki Koukoulioti, Stavroula Stavrakaki, Panayioti Ioannidis, Vasiliki Tsirka
The Sentence Production Test: Description and Preliminary Findings ............................................................................. 195
   Carolyn Wilshire, Carolina Lukkien, Christina Cameron Jones
The Use of Mouse Tracking to Study On-Line Syntactic Comprehension in Aphasia ....................................................... 197
   David Caplan, Joshua Levy, Jennifer Michaud
How Lexical Processing Deficits Affect Sentence Comprehension in Agrammatic Broca's Aphasia ...................................... 198
   Jungwon Choy, Cynthia Thompson
Agentive versus Non-agentive Passives in Catalan Agrammatism ............................................................................. 200
   Anna Gavarró, Josep Romeu
Simulating Bilingual Aphasia: A Novel Computational Model ......................................................................................... 202
   Uli Grasemann, Swathi Kiran, Chaleece Sandberg, Risto Miikkulainen
Codeswitching and Discourse Markers in Bilingual Aphasia: Indication of Impairment or Fluency? ............................ 204
   Yael Neumann-Werth, Carmit Altman, Joel Walters
Encoding Motion Events in Aphasia: Cross-Linguistic Perspectives in Monolingual and Bilingual Agrammatism ......... 206
   Efstathia Soroli, Maya Hickmann, Jean-Luc Nespoulous, Halima Sharaoui, Thi Mai Tran
Cross-Language Generalization in an Arabic-English Bilingual Person with Agrammatism ............................................. 208
   Monica F. Koumanidou Knooph
Alternating Verbs in Multilingual Speakers with Aphasia and Multilingual Late Learners of English ................................ 210
   Malathy Venkatesh, Susan Edwards, Douglas Saddy
A Case Study in Multilingual Aphasia: Written Object and Action Naming ................................................................. 212
   Maria Kambanaros
Hindi-English Bilingual Dyslexia ................................................................. 214
Apoorva Pauranik

Longitudinal Decline of Language in a Bilingual Patient with Logopenic Variant Primary Progressive Aphasia ................................................ 215
Rhonda Friedman, Aimee Carney, Susan Nitzberg Lott, Sarah Snider, Lauren Ulmch, Carol Eckmann

The Decline of Lexical and Grammatical Knowledge over Time in Bilingual Nonfluent Primary Progressive Aphasia (nfPPA) ........................................ 217
Judith Druds, Brendan Stuart Weekes

Aphasia Therapy Research: Still a Case of Conceptual Myopia? ............ 219
Line Haidland-Johansen

Integrated Therapy for Aphasia: Treating Multiple Levels of Language Processing Concurrently ................................................................. 221
Lisa Milman, Mariana Vega-Mendoza

Comparison of Production-Free with Conventional Treatment of Aphasia................................................................. 223
Christine Davis, Gretchen Hess, Kathleen Baynes

Learning and Maintaining New Vocabulary in Aphasia: Two Controlled Case Studies ................................................................. 225
Leena Tuomiranta, Petra Grönholm-Nyman, Francine Kohren, Nadine Martin, Matti Laine

Use of Semantic Activation in Rehabilitation of Naming in Fluent Aphasia ................................................................. 227
Kathleen Baynes, Gregory K. Shenaut, Beth A. Ober, Christine H. Davis, Elizabeth D’Angelo, Anna Teague

Computer-Assisted Therapy Significantly Improves Anomia for Verbs ................................................................. 229
Marie Di Pietro, Radek Ptak, Dorothee Genillod, Armin Schneider

TDCS Interferes with Naming of Semantically-Related Items ............................. 231
Alberio Pisoni, Costanza Papagno, Zaira Cattaneo

Repetitive Transcranial Magnetic Stimulation (rTMS) and Sham Modulation of Language Function in Non-fluent Aphasia 2 Months Post Stimulation ............................... 233
Caroline Barwood, Bruce Murdoch, Brooke-Mai Whelan, David Lloyd, Stephan Riek, John O’Sullivan

Syntactic Impairment of the Simple Matrix Clause: Principles of Rehabilitation and Treatment Efficacy ................................................................. 235
Giuseppina Zonca, Claudio Luzzatti, Angela Craia, Anna Bazzini, Guido Felicetti, Caterina Guarascielli

Development of a Theoretically Based Treatment For Sentence Comprehension Deficits in Aphasia ................................................................. 237
Swathi Kiran, David Caplan, Chaleece Sandberg, Joshua Levy, Alex Berardin, Marianna Simms

A New Conversation-based Therapy for Agrammatism: Initial Findings from an Ongoing Intervention Study ................................................................. 239
Suzanne Beeke, Fire Cooper, Wendy Best, Susan Edwards, Jane Maxim, Fiona Johnson

A Case Study of Melodic Intonation Therapy (MIT) in the Subacute Stage of Aphasia: Early Re-activation of Left Hemisphere Structures ............................... 241
Mieke Van De Sandt-Koenderman, Marion Smits, Ineke Van Der Meulen, Ewy Visch-Brink, Aad Van Der Lugt, Gerard Bibbers

Exploring the Effects of Brain-Training Exercises on the Cognitive and Linguistic Skills of Adults with Aphasia ................................................................. 244
Carolyn Bruce, Anne Edmundson, Charlotte Aviet, Libby Willison

Change in Apraxia of Speech Following a Multimodal Treatment of Phonological Alexia ................................................................. 246
Dana Szeles, Stacy Harnish, Tim Conway, Bruce Crosson, Leslie Gonzalez-Rothi

An Empirical Evaluation of Treatment Directions for Developmental Neglect Dyslexia ................................................................. 248
Ivana Nachman-Katz, Naama Friedmann

Long Term Outcomes of CILT in Early Aphasia Rehabilitation .......................... 250
Melanie Kirmness, Lynn Maher

Treatment of Anxiety in Aphasia................................................................. 252
Yutaka Tanaka, Dalia Cahana-Amity, Martin Albert, Koji Fujita, Nonaka Chieko, Masao Miyazaki

Quality of Life and Aphasia Severity: Is There a Relationship? ................................................................. 254
Clare McCann, James Ray, Annette Coulter, Jane Leggott

A Comparison Among Different Approaches to Data from Single Subject Designs ................................................................. 256
Hiram Brownell, Kevin Kearns, Kristine Lundgren

Integration of Syntax and Lexis in Anomia Therapy ................................................................. 258
Emma Gregory, Ruth Herbert, Rosemary Varley

Moving on from Single Words: The Use of Dynamic Video Stimuli for Verb Therapy ................................................................. 260
Clare McCann, Lucy Greg

Cross-linguistic Treatment Generalisation in Welsh-English Bilingual Anomia ................................................................. 262
Jennifer Rhiannon Roberts, Marie-Josepht Tainturier

Author Index