

TUTORIEL PSYCHOLINGUISTIQUE & NEUROLINGUISTIQUE
UMR 7023 Structures Formelles du Langage (CNRS & Université Paris 8)

REFERENCES DE LA PARTIE NEUROLINGUISTIQUE
Carlo CECCHETTO & Mauro VIGANO'

Dissociation nom-verbe dans l'aphasie

- Shapiro, K., & Caramazza, A. (2003). The representation of grammatical categories in the brain. *Trends in cognitive sciences*, 7(5), 201-206. DOI: 10.1016/s1364-6613(03)00060-3
- Caramazza, A., & Hillis, A. E. (1991). Lexical organization of nouns and verbs in the brain. *Nature*, 349(6312), 788-790. DOI: 10.1038/349788a0
- Luzzatti, C., & Chierchia, G. (2002). On the nature of selective deficits involving nouns and verbs. *Italian Journal of Linguistics*, 14, 43-72.
- Luzzatti, C., Raggi, R., Zonca, G., Pistorini, C., Contardi, A., & Pinna, G. D. (2002). Verb–noun double dissociation in aphasic lexical impairments: The role of word frequency and imageability. *Brain and language*, 81(1-3), 432-444. DOI: 10.1006/brln.2001.2536
- Benetello, A., Finocchiaro, C., Capasso, R., Capitani, E., Laiacona, M., Magon, S., & Miceli, G. (2016). The dissociability of lexical retrieval and morphosyntactic processes for nouns and verbs: A functional and anatomoclinical study. *Brain and language*, 159, 11-22. DOI: 10.1016/j.bandl.2016.05.005

Localisation du mouvement syntaxique (scrambling)

- Friederici, A. D., Fiebach, C. J., Schlesewsky, M., Bornkessel, I. D., & Von Cramon, D. Y. (2006). Processing linguistic complexity and grammaticality in the left frontal cortex. *Cerebral cortex*, 16(12), 1709-1717. DOI: 10.1093/cercor/bhj106

Syntaxe et mémoire à court terme

- Papagno, C., Cecchetto, C., Reati, F., & Bello, L. (2007). Processing of syntactically complex sentences relies on verbal short-term memory: Evidence from a short-term memory patient. *Cognitive Neuropsychology*, 24(3), 292-311. DOI: 10.1080/02643290701211928
- Lauro, L. J. R., Reis, J., Cohen, L. G., Cecchetto, C., & Papagno, C. (2010). A case for the involvement of phonological loop in sentence comprehension. *Neuropsychologia*, 48(14), 4003-4011. DOI: 10.1016/j.neuropsychologia.2010.10.019
- Giustolisi, B., Vergallito, A., Cecchetto, C., Varoli, E., & Lauro, L. J. R. (2018). Anodal transcranial direct current stimulation over left inferior frontal gyrus enhances sentence comprehension. *Brain and Language*, 176, 36-41. DOI: 10.1016/j.bandl.2017.11.001
- Vergallito, A., Varoli, E., Giustolisi, B., Cecchetto, C., Del Mauro, L., & Lauro, L. J. R. (2020). Mind the stimulation site: Enhancing and diminishing sentence comprehension with anodal tDCS. *Brain and Language*, 204, 104757. DOI: 10.1016/j.bandl.2020.104757

Traitements phonologiques

- Mesgarani, N., Cheung, C., Johnson, K., & Chang, E. F. (2014). Phonetic feature encoding in human superior temporal gyrus. *Science*, 343(6174), 1006-1010. DOI: 10.1126/science.1245994

De la segmentation de la parole à la syntaxe

- Ding, N., Melloni, L., Zhang, H., Tian, X., & Poeppel, D. (2016). Cortical tracking of hierarchical linguistic structures in connected speech. *Nature neuroscience*, 19(1), 158-164. DOI: 10.1038/nn.4186

Neurolinguistique de la langue des signes

- Cardin, V., Orfanidou, E., Rönnberg, J., Capek, C. M., Rudner, M., & Woll, B. (2013). Dissociating cognitive and sensory neural plasticity in human superior temporal cortex. *Nature communications*, 4(1), 1473.
- Corina, D., Kritchevsky, M., Bellugi, U. (1996). Visual language processing and unilateral neglect: Evidence from American Sign Language. *Cognitive Neuropsychology*, 13(3), 321-356. DOI: 10.1080/026432996381935
- Marshall, J., Atkinson, J. R., Smulovitch, E., Thacker, A., & Woll, B. (2004). Aphasia in a user of British Sign Language: Dissociation between sign and gesture. *Cognitive Neuropsychology*, 21(5), 537–554. <https://doi.org/10.1080/02643290342000249>
- Poizner, H., Klima, E. S., & Bellugi, U. (1987). *What the hands reveal about the brain*. MIT press. ISBN: 9780262660662
- Emmorey, K. (2021). New perspectives on the neurobiology of sign languages. *Frontiers in communication*, 6, 748430. DOI: 10.3389/fcomm.2021.748430

LECTURES CHOISIES

Lectures générales de neurolinguistique

- Catani, M., Dell'Acqua, F., Bizzi, A., Forkel, S. J., Williams, S. C., Simmons, A., ... & de Schotten, M. T. (2012). Beyond cortical localization in clinico-anatomical correlation. *Cortex*, 48(10), 1262-1287. DOI: 10.1016/j.cortex.2012.07.001
- Embick, D., & Poeppel, D. (2015). Towards a computational(ist) neurobiology of language: correlational, integrated and explanatory neurolinguistics. *Language, cognition and neuroscience*, 30(4), 357-366. DOI: 10.1080/23273798.2014.980750
- Friederici, A. D. (2017). *Language in our brain: The origins of a uniquely human capacity*. MIT Press. ISBN: 0262036924
- Grodzinsky, Y., & Nelken, I. (2014). The neural code that makes us human. *Science*, 343(6174), 978-979. DOI: 10.1126/science.1251495
- Krakauer, J. W., Ghazanfar, A. A., Gomez-Marin, A., MacIver, M. A., & Poeppel, D. (2017). Neuroscience needs behavior: correcting a reductionist bias. *Neuron*, 93(3), 480-490. DOI: 10.1016/j.neuron.2016.12.041
- Poeppel, D., & Embick, D. (2005). Defining the relation between linguistics and neuroscience. In A. Cutler (Ed.), *Twenty-first century psycholinguistics: Four cornerstones* (pp. 103–118). Lawrence Erlbaum Associates Publishers. ISBN: 0805852085
- Poeppel, D., Emmorey, K., Hickok, G., & Pylkkänen, L. (2012). Towards a new neurobiology of language. *Journal of Neuroscience*, 32(41), 14125-14131. DOI: 10.1523/JNEUROSCI.3244-12.2012

Aire de Broca

- Amunts, K., Lenzen, M., Friederici, A. D., Schleicher, A., Morosan, P., Palomero-Gallagher, N., & Zilles, K. (2010). Broca's region: novel organizational principles and multiple receptor mapping. *PLoS biology*, 8(9), e1000489. DOI: 10.1371/journal.pbio.1000489

- Tomaiuolo, F., MacDonald, J. D., Caramanos, Z., Posner, G., Chiavaras, M., Evans, A. C., & Petrides, M. (1999). Morphology, morphometry and probability mapping of the pars opercularis of the inferior frontal gyrus: an in vivo MRI analysis. *European Journal of Neuroscience*, 11(9), 3033-3046. DOI: 10.1046/j.1460-9568.1999.00718.x
- Zilles, K., & Amunts, K. (2018). Cytoarchitectonic and receptorarchitectonic organization in Broca's region and surrounding cortex. *Current opinion in behavioral sciences*, 21, 93-105. DOI: 10.1016/j.cobeha.2018.02.011

Compréhension des phrases et mémoire à court terme

- Baddeley, A. D., & Hitch, G. (1974). Working memory. In *Psychology of learning and motivation* (Vol. 8, pp. 47-89). Academic press. DOI: 10.1016/S0079-7421(08)60452-1
- Papagno, C., & Cecchetto, C. (2019). Is STM involved in sentence comprehension?. *Cortex*, 112, 80-90. DOI: 10.1016/j.cortex.2018.08.028
- Varkanitsa, M., & Caplan, D. (2018). On the association between memory capacity and sentence comprehension: Insights from a systematic review and meta-analysis of the aphasia literature. *Journal of Neurolinguistics*, 48, 4-25. DOI: 10.1016/j.jneuroling.2018.03.003

Traitemet de la parole dans le cerveau

- Giraud, A. L., & Poeppel, D. (2012). Cortical oscillations and speech processing: emerging computational principles and operations. *Nature neuroscience*, 15(4), 511-517. DOI: 10.1038/nn.3063
- Hickok, G., & Poeppel, D. (2007). The cortical organization of speech processing. *Nature reviews neuroscience*, 8(5), 393-402. DOI: 10.1038/nrn2113
- Poeppel, D. (2014). The neuroanatomic and neurophysiological infrastructure for speech and language. *Current opinion in neurobiology*, 28, 142-149. DOI: 10.1016/j.conb.2014.07.005

Neurolinguistique de la langue des signes

- Corina, D. P., & Blau, S. (2016). Neurobiology of sign languages. In S. L. Small & Hickok, G. (Eds.). *Neurobiology of language* (pp. 431-443). Academic Press. ISBN: 9780124077942
- Emmorey, K., McCullough, S., Mehta, S., Ponto, L. L., & Grabowski, T. J. (2011). Sign language and pantomime production differentially engage frontal and parietal cortices. *Language and cognitive processes*, 26(7), 878-901. DOI: 10.1080/01690965.2010.492643
- Lyness, C. R., Woll, B., Campbell, R., & Cardin, V. (2013). How does visual language affect crossmodal plasticity and cochlear implant success?. *Neuroscience & Biobehavioral Reviews*, 37(10), 2621-2630. DOI: 10.1016/j.neubiorev.2013.08.011
- Obretenova, S., Halko, M. A., Plow, E. B., Pascual-Leone, A., & Merabet, L. B. (2010). Neuroplasticity associated with tactile language communication in a deaf-blind subject. *Frontiers in human neuroscience*, 3, 953. DOI: 10.3389/neuro.09.060.2009
- Rönnberg, J., Söderfeldt, B., & Risberg, J. (2000). The cognitive neuroscience of signed language. *Acta Psychologica*, 105(2-3), 237-254. DOI: 10.1016/S0001-6918(00)00063-9
- Trettenbrein, P. C., Papitto, G., Friederici, A. D., & Zaccarella, E. (2021). Functional neuroanatomy of language without speech: An ALE meta-analysis of sign language. *Human Brain Mapping*, 42(3), 699-712. DOI: 10.1002/hbm.25254

Débat sur le lexicalisme et l'antilexicalisme

- Embick, D., & Noyer, R. (2007). Distributed morphology and the syntax-morphology interface. In G. Ramchand & Reiss, C. (Eds.). *The Oxford handbook of linguistic interfaces* (pp. 289-324). Oxford University Press. DOI: [10.1093/oxfordhb/9780199247455.013.0010](https://doi.org/10.1093/oxfordhb/9780199247455.013.0010)
- Cecchetto, C. & Donati, C. (2015). A plea for words. In *(Re)labeling* (pp. 7-21). MIT Press.