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THEMES DE RECHERCHE

- Les processus neuronaux de l'intégration multisensorielle par plusieurs approches 1) anatomie fonctionnelle (marqueurs hodologiques des réseaux de connexions cortico-corticales) 2) enregistrements électrophysiologiques chez le primate éveillé et en comportement 3) des études comportementales et d'imagerie cérébrale sur les compensations mécanismes d'interactions multisensoriel chez le sujet normo-entendant et le patient sourd implanté cochléaire.

MOTS-CLES

Multisensoriel – Vision – Audition – Surdit  – Langage – Anatomie – Imagerie c r brale – Psychophysique

PUBLICATIONS

Rouger J , Lagleyre S, Deneve S , Fraysse B , Deguine O. Barone P : Evidence that cochlear implanted deaf patients are better multisensory integrators. Proceedings of the National Academy of Sciences USA. 104 (2007) : 7295-7300.

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Wang, Y., Celebrini, S., Trotter, Y., and Barone P. Visuo-auditory interactions in the primary visual cortex of the behaving monkey. Electrophysiological evidence. BMC Neuroscience 2008, 9:79

Cappe, C., Morel A., Barone, P. and Rouiller E. The thalamocortical projection systems in primate : anatomical support for multisensory and sensorimotor interplay. Cerebral Cortex 19 (2009) : 2025-2037.

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- Lazard DS., Innes-Brown H and Barone P. Adaptation of the communicative brain to post-lingual deafness. Evidence from functional imagery. *Hearing Research* 307 (2013) : 136-143.
- Massida Z., M. Marx, P. Belin, C. James, B. Fraysse, P. Barone and O. Deguine. Gender categorization in cochlear-implanted deaf subjects. *Journal of Speech Language and Hearing Research* . 56 (2013) : 1389-1401.
- Berland A., Gaillard P., Guidetti M and Barone P. Perception of everyday sounds: A developmental study of a free sorting task. *PLoS One* (2015) 10 (2) e011555.
- Barone P., Chambaudie L., Strelnikov S., Fraysse B., Marx M., Belin P. and Deguine O. Crossmodal interactions during non linguistic auditory processing in cochlear-implanted deaf subjects. *Cortex* 83 (2016) : 259-270.
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