

[2012]

- **Lewis JW**, Talkington WJ, Tallaksen KC, Frum CA. [Auditory object salience: human cortical processing of non-biological action sounds and their acoustic signal attributes](#). *Frontiers in Systems Neuroscience* (2012 May). doi: 10.3389/fnsys.2012.00027.
- Talkington WJ, Rapuano KM, Hitt L, Frum CA, **Lewis JW**. [Humans mimicking animals: A cortical hierarchy for human vocal communication sounds](#). *J. Neuroscience*. (June 2012) 32(23):8084-93.
  - **Supplemental audio:**
    - [Animal1 AT5 03 ChimpScream3](#)
    - [Animal2 AT4 68 PandaCub2](#)
    - [Mimic1 AT5 03 ChimpScream3 SM](#)
    - [Mimic2 AT4 68 PandaCub2 SM](#)
    - [Foreign1 Yoruba Female Speech02](#)
    - [Foreign2 Akan Male Speech03](#)
    - [English1 Female Hvb Sent08 Neutral](#)
    - [English2 Male Hvb Sent09 Neutral](#)
- Cacioppo S, Bianchi-Demicheli F, Frum C, Pfaus JG, **Lewis JW**. [The common neural bases between sexual desire and love: a multilevel kernel density fMRI analysis](#). *J. Sexual Med* (2012), 9(4):1048-54. doi: 10.1111/j.1743-6109.2012.02651.x.

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- **Lewis JW**, Frum C, Brefczynski-Lewis JA, Talkington WJ, Walker NA, Rapuano KM, Kovach AL. [Cortical network differences in the sighted versus early blind for recognition of acoustic events and situational relationships](#). *Human Brain Mapping* (2011; Epub2 2010) (32):2241-55. doi:10.1002/hbm.21185.

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- **Lewis JW**.(2010). [Audio-visual perception of everyday natural objects- hemodynamic studies in humans](#). Invited book chapter in *Multisensory Object Perception of the Primate*

*Brain*. Eds. MJ Naumer, J Kaiser. Springer, Oxford University Press. Chapter 10:155-190.

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- Engel LR, Frum C, Puce A, Walker NA, Lewis JW. [Different categories of living and non-living sound-sources activate distinct cortical networks](#). *NeuroImage* (2009) 47:1778-1791.
- Lewis JW, Talkington WJ, Walker NA, Spirou GA, Jajosky A, Frum C, Brefczynski-Lewis, JA. (2009) [Human cortical organization for processing vocalizations indicates representation of harmonic structure as a signal attribute](#). *J. Neuroscience* 29(7):2283-2296.

- **Figure 1:** [Spectrograms](#)

**Supplemental Audios 1-5. Animal vocalizations depicted in Fig. 1a:**

- > [Snake](#)
- > [Cockatoo Screech](#)
- > [Horse Whinny](#)
- > [Cockatoo Call](#)
- > [Wolf Howl](#)

**Supplemental Audios 6-10. IRN stimuli depicted in Fig. 1b:**

- > [White Noise](#)
- > [IRN, HN = -2.7](#)
- > [IRN, HN = +3.0](#)
- > [IRN, HP = +13.3](#)
- > [IRN, HP = +24.1](#)

[2008]

- Huddleston WE, **Lewis JW**, Phinney RE, DeYoe EA. [Auditory and visual attention-based apparent motion share functional parallels](#). *Journal of Cognitive Neuroscience* (2008), 70(7):1207-1216.
- Brefczynski-Lewis JA, Datta R, **Lewis JW**, DeYoe EA. [The topography of visuospatial attention as revealed by a novel visual field mapping technique](#). *Journal of Cognitive Neuroscience* (2008).

#### [2006]

- Data from **Lewis** is on display at the Human Origins exhibit at the American Museum of Natural History, New York (2006-Present).  
<http://www.amnh.org/exhibitions/permanent/humanorigins/human/tools4.php>
- **Lewis JW**. [Cortical networks related to human use of tools](#). *The Neuroscientist* (2006), 12(3):211-231. [Cover](#)
- **Lewis JW**, Phinney RE, Brefczynski JA, DeYoe EA. [Lefties get it “right” when hearing tool sounds](#). *Journal of Cognitive Neuroscience* (2006), 18:3114-1330. [Cover](#)

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