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By: Orbach, Dara N.; Fenton, Brook. PLoS ONE, 2010, Vol. 5 Issue 11, p1-7, 7p; Abstract: Background: Free-flying insectivorous **bats** occasionally collide with stationary objects they should easily detect by echolocation and avoid. Collisions often occur with lighted objects, suggesting ambient light may deleteriously affect obstacle avoidance capabilities. We tested the hypothesis that free-flying **bats** may orient by vision when they collide with some obstacles. We additionally tested whether acoustic distractions, such as "distress calls" of other **bats**, contributed to probabilities of collision.

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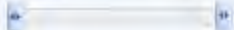
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By: Falk, Ben; Williams, Tameeka; Aytekin, Murat; Moss, Cynthia. *Journal of Comparative Physiology A: Neuroethology, Sensory, Neural & Behavioral Physiology*, May 2011, Vol. 197 Issue 5, p491-503, 13p

**Abstract:** This study examined behavioral strategies for texture discrimination by echolocation in free-flying **bats**. Big brown **bats**, *Eptesicus fuscus*, were trained to discriminate a smooth 16 mm diameter object (S+) from a size-matched textured object (S-), both of which were tethered in random locations in a flight room. The **bat's** three-dimensional flight path was reconstructed using stereo images from high-speed video recordings, and the **bat's** sonar vocalizations were recorded for each trial and analyzed off-line. A microphone array permitted reconstruction of the sonar beam pattern, allowing us to study the **bat's** directional gaze and inspection of the objects. **Bats** learned the discrimination, but performance varied with S-. In acoustic studies of the objects, the S+ and S- stimuli were ensouled with frequency-modulated sonar pulses. Mean intensity differences between S+ and S- were within 4 dB. Performance data, combined with analyses of echo recordings, suggest that the big brown **bat** listens to changes in sound spectra from echo to echo to discriminate between objects. **Bats** adapted their sonar calls as they inspected the stimuli, and their sonar behavior resembled that of animals foraging for insects. Analysis of sonar beam-directing behavior in certain trials clearly showed that the **bat** sequentially inspected S+ and S-. [ABSTRACT FROM AUTHOR]; DOI: 10.1007/s00359-010-0621-6; (AN 60017173)

Subjects: BIG brown bat; ECHolocation (Physiology); BAT sounds; MAMMALS; BEHAVIOR; ANIMALS

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By: Williams, Cynthia; Koprucki, Debra; Tjostevold, Ole-Gunnar. *Journal of Comparative Physiology A: Neuroethology, Sensory, Neural & Behavioral Physiology*, May 2011, Vol. 197 Issue 5, p491-503, 13p

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*Neuroethology, Sensory, Neuro or Behavioral Physiology, Physiology*; 2011; 90: 137-150; 12/17/2011; 1309.

**Abstract:** This study examined behavioral strategies for texture discrimination by echolocation in free-flying **bats**. Big brown **bats**, *Eptesicus fuscus*, were trained to discriminate a smooth 16 mm diameter object (S+) from a size-matched textured object (S-), both of which were tethered in random locations in a flight room. The **bat's** three-dimensional flight path was reconstructed using stereo images from high-speed video recordings, and the **bat's** sonar vocalizations were recorded for each trial and analyzed off-line. A microphone array permitted reconstruction of the sonar beam pattern, allowing us to study the **bat's** directional gaze and inspection of the objects. **Bats** learned the discrimination, but performance varied with S-. In acoustic studies of the objects, the S+ and S- stimuli were ensified with frequency-modulated sonar pulses. Mean intensity differences between S+ and S- were within 4 dB. Performance data, combined with analyses of echo recordings, suggest that the big brown **bat** listens to changes in sound spectra from echo to echo to discriminate between objects. **Bats** adapted their sonar calls as they inspected the stimuli, and their sonar behavior resembled that of animals foraging for insects. Analysis of sonar beam-directing behavior in certain trials clearly showed that the **bat** sequentially inspected S+ and S-. [ABSTRACT FROM AUTHOR]; DOI:

10.1007/s00359-010-0621-6; (AN 60017173)

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Williams, Tameela  
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Moss, Cynthia *cmoss@psyc.umd.edu*

**Source:** Journal of Comparative Physiology A: Neuroethology, Sensory, Neural & Behavioral Physiology  
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Moss, Cynthia [cmoss@psyc.umd.edu](mailto:cmoss@psyc.umd.edu)

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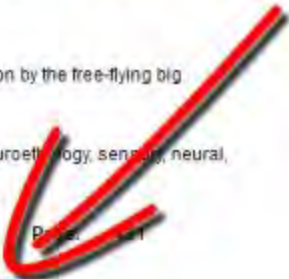
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**Authors:** Vázquez-Morón, Sonia<sup>1,2</sup>

svazquez@isciii.es

Juste, Javier<sup>2</sup>Ibáñez, Carlos<sup>3</sup>Berdano, José M.<sup>1</sup>Echevarría, Juan E.<sup>1,2</sup>
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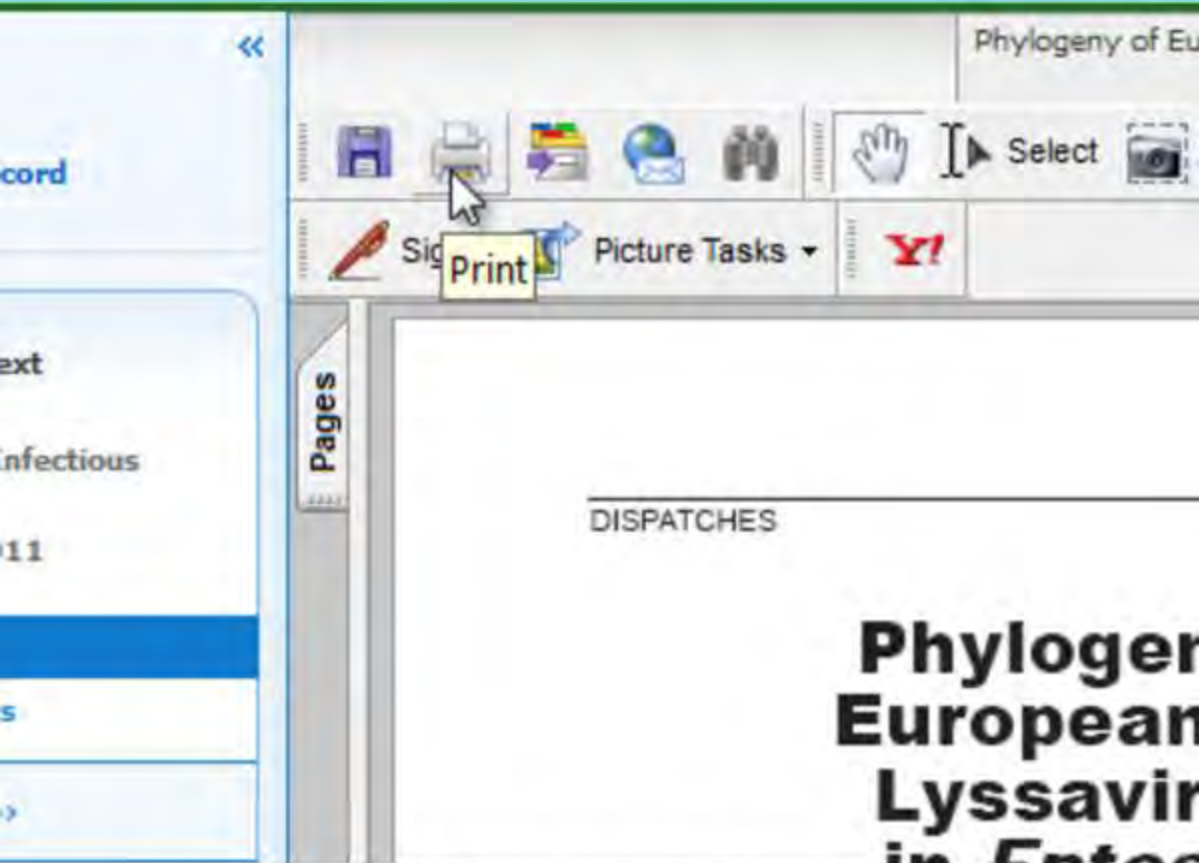
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**Abstract:** To better understand the epidemiology of European **bat** lyssavirus 1 (EBLY-1) in Europe, we phylogenetically characterized Lyssavirus from *Eptesicus isabellinus* **bats** in Spain. An

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svazquez@iicik.es  
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Ibáñez, Carlos<sup>3</sup>  
Berdano, José M.<sup>2</sup>  
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de Morón, Sonia<sup>1,2</sup>

sofia.moron@isciii.es

Javier<sup>3</sup>

Carlos<sup>3</sup>

de José M.<sup>1</sup>

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Phylogeny of European **Bat** Lyssavirus 1 in *Eptesicus isabellinus* **Bats**, Spain.**Authors:** Vázquez-Morón, Sonia<sup>1,2</sup>

svazquez@ecdc.es

Juste, Javier<sup>2</sup>Ibáñez, Carlos<sup>3</sup>Berdano, José M.<sup>2</sup>Echevarría, Juan E.<sup>1,2</sup>**Source:** *Emerging Infectious Diseases*; Mar 2011,

Vol. 17 Issue 3, p520-523, 4p, 1

Diagram, 1 Chart, 1 Map

**Document Type:** Article

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\*VESPERTILIONIDAE  
\*BATS  
\*EPTESICUS

**Geographic Terms:** SPAIN

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## Phylogeny of European Bat Lyssavirus 1 in Eptesicus isabellinus Bats in Spain.

**Authors:** Vázquez-Morón, Sonia<sup>1,2</sup>  
svazquez@edok.es  
Juste, Javier<sup>2</sup>  
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## Phylogeny of European bat Lyssavirus 1 in *Eptesicus isabellinus* Bats, Spain

**Authors:** Vázquez-Morón, Sonia<sup>1,2</sup>  
 svazquez@isabell.es  
 Juste, Javier<sup>2</sup>  
 Ibáñez, Carlos<sup>2</sup>  
 Berdano, José M.<sup>1</sup>  
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Abstract: To better understand the epidemiology of European bat lyssavirus 1 (EBLV-1) in Europe, we  
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cluster of EBLV-1 possibly resulted from geographic isolation and association with a different reservoir  
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Charles E.; Gentsch, Jon R.; Bowen, Michael D.. Emerging Infectious Diseases, Dec2010, Vol. 16 Issue  
12, p1844-1852, 9p, 3 Diagrams, 1 Chart, 1 Graph; Abstract: Bats are known reservoirs of viral  
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nonstructural protein [NSP] 2, NSP3, and NSP5) shared ancestry with other mammalian rotaviruses but  
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human strains. Analysis of partial sequence of the VP1 gene indicated that it was distinct from cognate  
genes of other rotaviruses. No sequences were obtained for the VP3 and NSP1 genes of the bat  
rotavirus. This rotavirus was designated G25-P[6]-115-R8(provisional)-C8 Mx-Ax-N8-T11-E2-H10.  
Results suggest that several reassortment events have occurred between human, animal, and bat  
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