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# PROCEEDINGS OF THE INDIANA ACADEMY OF SCIENCE

The *PROCEEDINGS OF THE INDIANA ACADEMY OF SCIENCE* is a journal dedicated to promoting scientific research and the diffusion of scientific information, to encouraging communication and cooperation among scientists, and to improving education in the sciences.

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**Cover:** Dorsal view of adult four-toed salamander, *Hemidactylium scutatum*. Lagrange County, IN. 10 May 2009. Adult four-toed salamanders are slender with a noticeable constriction at the base of the tail where it will detach if handled roughly. The dorsal coloration is brownish with the tail, legs, and snout usually more golden brown than the rest of the dorsum. There is a herringbone or chevron pattern impressed into the dorsum forward of the tail. Laterally, the coloration shifts from brown to grayish toward the belly. It is the only plethodontid salamander in eastern North America with four toes on its hind feet; however, the toes are tiny and difficult to count. The most reliable field mark for identifying this salamander is the bright, porcelain white belly with scattered black spots, unique among North American salamanders. *Photo by Lee Casebere.*

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Figures 1–4.—Right chelicerae of species of *Centruroides* from Timbuktu. 1. Dorsal view; 2. Prolateral view of moveable finger; 3. *Centruroides* holotype male; 4. *Centruroides* female. Scale = 1.0 mm.

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