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Cover legend: An adult american alligator, *Alligator mississippiensis*. Neurons in the nucleus laminaris of alligators act as coincidence detectors to discriminate interaural time differences using algorithms similar to those used by birds. Photograph copyright Nick Scobel, 2008, used with permission. For more information, see the article by Carr et al. in this issue (pages 7978–7990).

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