

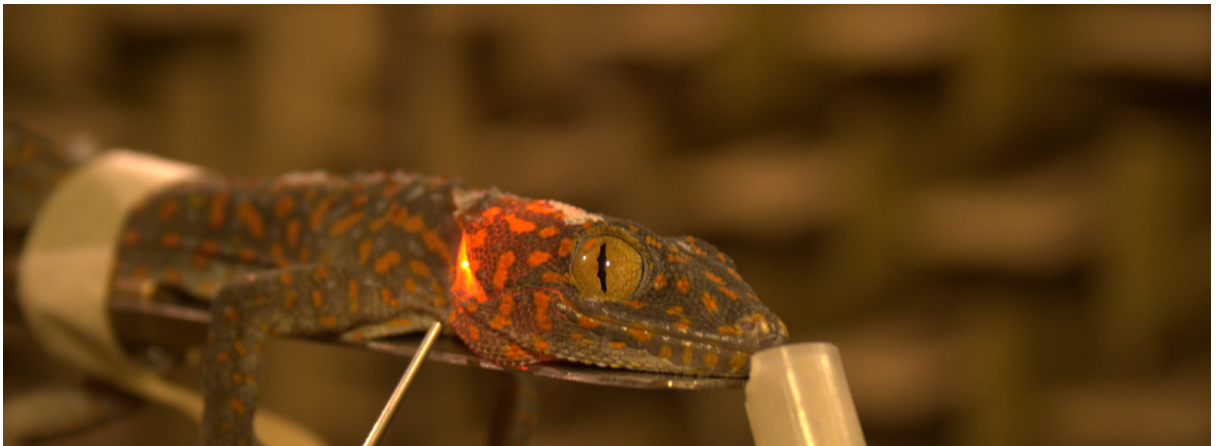


## Lizard directional hearing

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Localization of sound sources is an important task for the auditory system. However, sound source direction is not perceived directly, but require considerable processing by the auditory pathway, for example binaural comparisons. In some animals the middle ears are internally coupled, so sound can reach both sides of the eardrum, creating a strongly directionality response af the eardrums that may simplify the subsequent neural processing. The prime examples of this ear configuration are the lizards, and in the talk I will present an overview of my studies of their ears and directional hearing, from biophysics of the eardrum and neurophysiology to robotics and behavioral investigations.



**Friday, February 3<sup>rd</sup> at 13.00 in the  
Zoophysiology Seminar Room (1131-127)**