



## **Chapter 043, Chinchillas as Experimental Models (American College of Laboratory Animal Medicine)**

*Mark Suckow*

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NOTE: This is a single chapter excerpted from the book *The Laboratory Rabbit, Guinea Pig, Hamster, and Other Rodents*, made available for individual purchase. Additional chapters, as well as the entire book, may be purchased separately.

The chinchilla is the traditional animal model for most types of research related to the ear, specifically, hearing loss and otitis media. The chapter discusses all the different experimental models such as the models related to aural diseases, models related to hearing loss, and the models of aural pathologic conditions associated with hearing loss. The chinchilla inner ear anatomy and ear physiology are similar to humans. The chinchilla ear has three turns in the cochlea, a tubotympanum that shares similar anatomy with that of humans. Chinchillas have been used to develop models of single pathogen-induced otitis media and are the predominant host and considered the gold standard. Several new areas of research using chinchillas are being developed. Chinchillas continue to be important models for ear-related research and play critical roles due to their specific attributes, despite the trend toward mouse models.

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