



Animal Models for the Study of Human Disease: Chapter 27. The Importance of Olfactory and Motor Endpoints for Zebrafish Models of Neurodegenerative Disease

Angela L. Shamchuk, Keith B. Tierney

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Olfactory dysfunction, although caused by many factors including physical damage and genetic abnormalities, is an early stage symptom of several neurodegenerative diseases. Not only is the olfactory system subject to the specific histological abnormalities but patients also lose the capacities to detect, identify, and discriminate among odors. In addition to olfactory deficits, motor dysfunction is another prominent manifestation of these conditions. Recent studies have begun to create zebrafish (*Danio rerio*) models for neurodegenerative diseases. Despite successful execution, there remains a great deal of potential in testing the models using established methods of olfactory and motion assessment. This chapter discusses the current zebrafish models and suggests olfactory and motor endpoints for Parkinson's, Alzheimer's, Huntington's, multiple system atrophy, and amyotrophic lateral sclerosis.

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