Neural Crest Cells Evolution, Development and Disease

Edited By Paul A. Trainor



СНАРТЕК

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Neural Crest Cell Migration: Guidance, Pathways, and Cell–Cell Interactions

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PATHWAYS OF NEURAL CREST CELL MIGRATION: AN OVERVIEW

The neural crest cells (NCC) are induced at the interface between the neuroepithelium and the prospective epidermis [1]. Shortly after induction, NCC delaminate from their surrounding tissue by activating an epitheliumto-mesenchyme transition (EMT) program and migrate extensively throughout the embryo [2]. They depart as a continuous cell population, progressively dispersing away from the neuroepithelium, and organize into discrete streams. Along the way toward their target