

NEURAL CREST AND PLACODES

Edited by

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Neural crest cells and placodes are critical for vertebrate development and evolution and defects in their development underlie a wide range of congenital disorders. This volume of *Current Topics in Developmental Biology* explores advances in our understanding of the mechanisms governing the formation, migration and differentiation of these two cell populations as well their integration during embryonic development. This volume highlights the application of this fundamental knowledge in investigating the etiology and pathogenesis of congenital disorders and to the field of regenerative medicine.

KEY FEATURES:

- Authoritative and expert contributions from this exciting area of biomedical research
- Comprehensive and state of the art reviews with emphasis on the integration between neural crest cells and placodes as well as their roles in evolution and disease.

Cover images:

The cover image is of a coronal section of a late gestation mouse embryo with the brain, eye, olfactory and cranial peripheral nervous system immunostained with the neuronal marker, anti-Tuj1 (green). The craniofacial musculature is immunostained with anti-Actin (red) and the nuclei in all cell types is stained with DAPI (blue). Image courtesy of Kazushi Aoto and Paul Trainor, Stowers Institute for Medical Research.



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