

Craniofacial Embryogenetics and Development

Third Edition, *Geoffrey H. Sperber and Steven M. Sperber*

The unprecedented expansion of genetic information about the embryonic development of the craniofacies requires us to incorporate recent advances of knowledge into a basic understanding of the morphogenesis of the oromasticatory and facial structural assembly. Technical advances in mapping gene expression patterns by optical projection tomography, photoacoustic and 3D imaging, small-angle X-ray scattered (SAXS) tomography, and morphometrics reveal intricacies of development that this book aims to unravel. New imaging techniques are revealing the multiple genetic factors establishing the developmental basis of morphogenesis. The intricate integration of the skull with the brain, sensory systems, gnathodental apparatus, and respiratory and digestive systems requires embryonic “dissection” of the various stages of development that the chapters of this book reveal.

This book is committed to melding the diverse interests of the disparate disciplines of anatomy, embryology, syndromology, plastic and orofacial surgery, otolaryngology, orthodontics, pediatrics, dentistry, speech pathology, and associated healthcare fields through the common objective of understanding and providing diagnosis, prognosis, prevention, and cure for disparities of development of the craniofacial complex.

Key Features

- Provides clinicians with a basic background for assessing and treating craniofacial anomalies.
- Describes recent technical advances in optical projection tomography, photoacoustic and 3D imaging, small-angle X-ray scattered (SAXS) tomography and morphometrics and their impact on embryogenetics.

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