CONTENTS

Review Articles

49 Regional heterogeneity in the developing palate: morphological and molecular evidence for normal and abnormal palatogenesis
Junko Okano, Shige hiko Suzuki, and Kohei Shiota

55 Etiology, pathogenesis and prevention of neural tube defects
Rengasamy Padmanabhan

68 Molecular approaches to developmental malformations using analogous forms of valproic acid
Akinobu Okada and Michio Fujiwara

Original Articles

Mathias B. Forrester and Ruth D. Merz

81 Clock mutant mice with Jcl/ICR background shows an impaired learning ability in water maze, but not in passive avoidance, at the beginning of dark phase
Hiroyoshi Sei, Katsutaka Oishi, Atsuko Sano, Hiromasa Seno, Tetsuro Ohmori, Yusuke Morita, and Norio Ishida

86 Acute respiratory infections during pregnancy and congenital abnormalities: a population-based case-control study
Nándor Ács, Ferenc Bánhidy, Erzsébet Puhó, and Andrew E. Czeizel

97 Cardiovascular malformations induced by prenatal exposure to phenobarbital in rats
Hirokazu Okuda and Tetsuji Nagao

105 Two-generation reproduction toxicity study in rats with 1,1,1-trichloro-2,2-bis(4-chlorophenyl)ethane (p,p'-DDT)
Hitoshi Hojo, Hiroaki Aoyama, Ken L. Takahashi, Naoko Shimizu, Masayuki Araki, Yoshio Takizawa, Koji Sakasai, Maki Kuwahara, Machiko Saka, and Shoji Teramoto

Case Report

115 Discrepancies in cytogenetic results between amniocytes and postnatally obtained blood: trisomy 9 mosaicism
Rika Kosaki, Sae Hanai, Hiroki Kakishima, Michiyo A. Okada, Satoshi Hayashi, Yushi Ito, Takao Takahashi, Kenjiro Kosaki, and Torayuki Okuyama

Note

118 Primary prevention of neural tube defects with folate in Western Australia: the value of the Western Australian Birth Defects Registry
Carol Bower

Society News

J3 Activities and Announcement