ESSAY IN DEVELOPMENT
Williams, J. G.
The role of diffusible molecules in regulating the cellular differentiation of Dictyostelium discoideum 1

CONTRIBUTED PAPERS
Watanabe, K., Aoyama, H., Tamamaki, N., Sonomura, T., Okada, T. S., Eguchi, G. and Nojyo, Y.
An embryonic pineal body as a multipotent system in cell differentiation 17

Hayashi, M., Ninomiya, Y., Hayashi, K., Linsenmayer, T. F., Olsen, B. R. and Trebst, R. L.
Secretion of collagen types I and II by epithelial and endothelial cells in the developing chick cornea demonstrated by in situ hybridization and immunohistochemistry 27

Thomas, W. A. and Yancey, J.
Can retinal mechanisms determine cell-sorting patterns: a test of the differential adhesion hypothesis 37

Hanneman, E., Trevarrow, B., Metcalfe, W. K., Kimmel, C. B. and Westerfield, M.
Segmental pattern of development of the hindbrain and spinal cord of the zebrafish embryo 49

Krone, P. H. and Heikkila, J. J.
Analysis of hsp 30, hsp 70 and ubiquitin gene expression in Xenopus laevis tadpoles 59

Bagnall, K. M., Higgins, S. J. and Sanders, E. J.
The contribution made by a single somite to the vertebral column: experimental evidence in support of resegmentation using the chick-quail chimera model 69

Repressa, J. J., Miner, C., Barbosa, E. and Giraldez, F.
Bombesin and other growth factors activate cell proliferation in chick embryo otic vesicles in culture 87

Stirling, R. V. and Summerbell, D.
Specific guidance of motor axons to duplicated muscles in the developing amniote limb 97

In situ hybridization reveals differential spatial distribution of mRNAs for type I and type II collagen in the chick limb bud 111

Bownes, M., Scott, A. and Shirras, A.
Dietary components modulate yolk protein gene transcription in Drosophila melanogaster 119

Howlett, S. K., Barton, S. C., Norris, M. L. and Surani, M. A. H.
Nuclear and cytoplasmic localization of newly synthesized proteins in the early mouse embryo 129

Gaunt, S. J.
Mouse homeobox gene transcripts occupy different but overlapping domains in embryonic germ layers and organs: a comparison of Hox-3.1 and Hox-1.5 135

Piovant, M. and Lena, P.
Membrane glycoproteins immunologically related to the human insulin receptor are associated with presumptive neuronal territories and developing neurones in Drosophila melanogaster 145

Martinez Arias, A., Baker, N. E. and Ingham, P. W.
Role of segment polarity genes in the definition and maintenance of cell states in the Drosophila embryo 157

Surani, M. A., Barton, S. C., Howlett, S. K. and Norris, M. L.
Influence of chromosomal determinants on development of androgenetic and parthenogenetic cells 171

Chau, M. F. and Ng, S. F.
Interspecific micronuclear transplantation in Paramecium: nucleogenesis and stomatogenesis in asexual and sexual reproduction 179

Keller, R. and Danilchik, M.
Regional expression, pattern and timing of convergence and extension during gastrulation of Xenopus laevis 193

Hardin, J. and Keller, R.
The behaviour and function of bottle cells during gastrulation of Xenopus laevis 211