The British Society for Developmental Biology
with
The European Society of Human Reproduction and Embryology

is organizing several sessions at the

3rd European Conference on Human Reproduction and Embryology

in Cambridge, June 28th – July 1st 1987

Topics:
Molecular Embryology
Oocyte and Preimplantation Embryos
Implantation and Postimplantation Embryos
Transgenic Mice (Workshop)

Speakers include:
Reik, Graham, Surani, Gardner, Moor, Akhurst, Stewart, Evans, Neuberger, Grosveld, Harbers, Ellington, Ozil, Braude, Hearn

Details and booking forms from:
Professor R. G. Edwards
Department of Physiology
Downing Street
Cambridge, UK

THE BSDB WISHES TO ACKNOWLEDGE GRATEFULLY THE SPONSORSHIP OF OLYMPIC AIRLINES AT THIS MEETING
Contents

Volume 100 (2) 1987

Editorial statement 179

ESSAY IN DEVELOPMENT
Gilroy, S., Blowers, D. P. and Trewavas, A. J.
Calcium: a regulation system emerges in plant cells 181

CONTRIBUTED PAPERS
Svoboda, K. K. H. and O'Shea, K. S.
An analysis of cell shape and the neuroepithelial basal lamina during optic vesicle formation in the mouse embryo 185

Kammermeyer, K. L. and Wadsworth, S. C.
Expression of Drosophila epidermal growth factor receptor homologue in mitotic cell populations 201

Fernández, J., Olea, N. and Matte, C.
Structure and development of the egg of the glossiphoniid leech Theromyzon rude: characterization of developmental stages and structure of the early uncleaved egg 211

Kato, Y. and Riddiford, L. M.
The role of 20-hydroxyecdysone in stimulating epidermal mitoses during the larval–pupal transformation of the tobacco hornworm, Manduca sexta 227

Segmentally repeated pattern of expression of a cell surface glycoprotein in Drosophila embryos 237

Meeedel, T. H., Crowther, R. J. and Whittaker, J. R.
Determinative properties of muscle lineages in ascidian embryos 245

Andrew, D. J.
Fate map of the eye – antennal imaginal disc of the tumorous-head mutant of Drosophila melanogaster 261

Giraldez, F., Represa, J. J., Borondo, L. and Barbosa, E.
Polarization and density of Na-pumps in the inner ear of the chick embryo during early stages of development 271

Dale, L. and Slack, J. M. W.
Regional specification within the mesoderm of early embryos of Xenopus laevis 279

Cascio, S. and Gurdon, J. B.
The initiation of new gene transcription during Xenopus gastrulation requires immediately preceding protein synthesis 297

Davies, A. M.
The growth rate of sensory nerve fibres in the mammalian embryo 307

Johnson, M. H. and Pickering, S. J.
The effect of dimethylsulphoxide on the microtubular system of the mouse oocyte 313

Garbutt, C. L., Johnson, M. H. and George, M. A.
When and how does cell division order influence cell allocation to the inner cell mass of the mouse blastocyst? 325

Wolpert, L. and Hornbruch, A.
Positional signalling and the development of the humerus in the chick limb bud 333

Pardanaud, L., Altmann, C., Kitos, P., Dieterlen-Lievre, F. and Buck, C. A.
Vasculogenesis in the early quail blastodisc as studied with a monoclonal antibody recognizing endothelial cells 339

Weller, A., Meek, J. and Adamson, E. D.
Preparation and properties of monoclonal and polyclonal antibodies to mouse epidermal growth factor (EGF) receptors: evidence for cryptic EGF receptors in embryonal carcinoma cells 351