

BRITISH SOCIETY FOR DEVELOPMENTAL BIOLOGY

The 34th meeting of the Society will take the form of a joint meeting with the Society for the Study of Fertility and the Anatomical Society of Great Britain and Ireland.

The Symposium topic for the meeting with the Society for the Study of Fertility will be Sexual Differentiation and the venue will be the Meeting Room of the Zoological Society, Regent's Park, London, NW1 4RY on Wednesday, 5th January, 1977. Members of the British Society for Developmental Biology are also welcome to attend a meeting of the Society on Tuesday, 4th January, also at the Regent's Park venue. The scientific programme for these two days is enclosed.

The Symposium topic for the meeting with the Anatomical Society will be Tissue Interactions in Development and the venue will be The Middlesex Hospital Medical School, London, W1P 6DB on Thursday, 6th January followed by sessions of contributed papers on Friday, 7th January, 1977. The scientific programme for the two day meeting with the Anatomical Society is given below:

THURSDAY, 6th JANUARY, 1977

SYMPOSIUM ON TISSUE INTERACTIONS IN DEVELOPMENT

9.00 a.m. - Session 1

- ✓ 1. A. Curtis and C. E. Evans: Tissue interactions controlling cell position and tissue formation.
- ✓ 2. Ruth Bellairs, P. A. Portch and E. J. Sanders: Behaviour patterns of chick blastoderm cells.
- ✓ 3. A. S. Breathnach, C. Stolinski and Ruth Bellairs: Cell membrane junctional complexes in the notochord and neural tube.
- ✓ 4. C. C. Wylie and Janet Heasman: Some studies on the migration of primordial germ cells.

11.00 a.m. - Coffee

11.30 a.m. - Session 2

- 5. O. P. Flint: Cell interactions in facial development of the mouse.
- 6. P. R. Morgan and R. M. Pratt: The role of epithelial interaction in palatal fusion.
- 7. D. J. Pritchard: Abnormal differentiation of ocular tissues in vitro in relation to tissue interaction

1.00 - Lunch

2.00 p.m. - Session 3

- ✓ 8. J. Slack: Tissue interactions in the polarization of the antero-posterior axis of the developing amphibian limb.
- ✓ 9. N. H. K. Holder: Cellular autonomy in the early development of the chick elbow joint.

- ✓ 10. R. V. Stirling: Patterns of innervation in abnormally constructed wings: evidence for interaction between invading axons and recipient tissues.
- ✓ 11. P. J. Watson and D. A. Ede: Neural-epidermal interactions in the developing skin of the pupoid-foetus (pf/pf) mouse mutant embryo.

4.00 p.m. - Tea

4.30 p.m. - Session 4

12. D. Tarin: Tissue interactions in neoplasia.

END OF SYMPOSIUM

13. P. Whur, C. M. Urquhart, E. D. Wright, M. Gordon and D. C. Williams: Development of tumour cell features in normal cells grown adjacent to malignant cells.
14. E. K. Parkinson and J. G. Edwards: Do pigmented retina cells spread and move upon fibroblast sheets?
15. R. P. Gould: The distribution of microfilaments in rat liver cells.
16. Margaret M. Bird: Linked mitochondria in neurons of dorsal root ganglia maintained in vitro.
17. K. M. Bagnall, P. F. Harris and P. R. M. Jones: Measuring the crown-rump length in the human fetus.

FRIDAY, 7th JANUARY, 1977

(NOTE: PARALLEL SESSIONS)

9.00 a.m. - Session 5

- ✓ 18. L. W. Wale and R. P. Gould: Mitochondrial changes during spermatogenesis in the oyster (Ostrea gigas).
- ✓ 19. B. N. Hemsworth and A. A. Wardhaugh: The effect of spermatozoal impairment in Xenopus laevis and Mus musculus on fertility and development of offspring.
- ✓ 20. P. R. Braude and M. H. Johnson: Control mechanisms in the differentiation of the mouse blastocyst. I. The synthesis of tissue specific proteins.
- ✓ 21. A. H. Handyside and M. H. Johnson: Control mechanisms in the differentiation of the mouse blastocyst. II. The timing of determination and differentiation.
- ✓ 22. R. L. Gardner: The problem of intrauterine orientation of the implanting mouse blastocyst.
- ✓ 23. M. H. Kaufman and M. A. H. Surani: Postimplantation development of mouse parthenogenetic embryos following activation in medium lacking Ca^{2+} and Mg^{2+} ions.

- ✓ 24. R. F. Searle and E. J. Jenkinson: Trophoblast-specific antigen as a marker during early mouse differentiation.

9.00 a.m. - Session 6

25. Gillian Mobb and B. A. Wood: Sex differences in the primate pelvis.
26. A. J. Palfrey: An osteometric study of the acetabulum.
27. A. Henderson and B. A. Wood: The functional anatomy of the Olduvai (O.H.8) foot.
28. R. J. Benink: A rontgenographic study of the continuous motion of the tarsal bones.
29. L. K. Ziemer: A study of the shoulder joints in the woolly monkey, Lagothrix.
30. R. K. Griffiths, G. E. Bacon and P. J. Bacon: The study of bone structure by neutron diffraction.
31. N. A. Scott, Jacqueline B. Weiss and K. M. Bagnall: Quantitative and qualitative observations on changes with age in the intercellular matrix of the lumbar intervertebral disc of the rabbit.

10.45 a.m. - Coffee

11.15 a.m. - Session 7

- * 32. A. E. Wild and Pat Dawson: Detection of Fe receptors on rabbit yolk sac endoderm.
- * 33. D. Bulmer and Sandra Peel: Immuno-peroxidase studies on the placenta and uterus of the pregnant rat and on deciduomata of pseudopregnancy.
- * 34. R. E. Poelmann: Morphological changes in the ectoderm of early mouse embryos related to the patterns of cell division and cell degeneration.
- * 35. Jennifer Wakely and Marjorie A. England: Distribution of mesoderm in the early chick embryo.
- * 36. P. H. S. Silver and R. P. Gould: Rathke's pouch and the anterior neuropore in the chick embryo (Gallus domesticus).
- * 37. C. Stolinski: Unusual features of plasma membrane of chick neural tube cells.
- * 38. C. V. Howard: The effect of environmental complexity upon the postnatal development of the reticular formation of the rat; a stereological investigation.

11.15 a.m. - Session 8

39. A. J. Bower, S. Parker and V. Molony: Receptor sites in the extrapulmonary airways of the domestic hen.
40. A. S. King, D. Z. King and C. Griffiths: Do neuroepithelial bodies occur in avian respiratory epithelium?

41. A. R. Akester and J. H. Brackenbury: The capillary zone of the avian tertiary bronchus.
42. E. M. Abdel Magied: On the topographical anatomy of the carotid body of the domestic fowl.
43. Marilyn Jones: Diurnal changes in the lipid content of avian muscle.
44. A. S. Davies: The postnatal growth of fat in the pig.
45. A. P. Zarod: The guinea-pig as a site for studying the effects of ultrasonic irradiation on haemostasis.

1.00 p.m. - Lunch

2.00 p.m. - Session 9

46. Ursula Mittwoch: Lateral asymmetry of gonadal growth in human fetuses and chick embryos.
47. L. J. Pelliniemi, L. Lauteala and A. L. Saloniemi: Differentiation of embryonic pig testis.
48. R. Barer, S. Jacob, S. Joseph, M. Adams, F. Om'Iniabohs and M. Gupta: Some effects of lipaemia during pregnancy on tissues of the offspring.
49. J. G. Bearn and J. Marks: The rabbit fetal pituitary and fetal haemotopoiesis.
50. Ruth St. C. Gilmore and J. B. Bridges: Studies of the bursa of Fabricius: 1. Epithelial bud cell function.
51. M. E. Atkinson and M. M. Al-Hamdan: Ultrastructural studies of blast cell transformation in mouse lymph nodes stimulated with dinitrochlorobenzene.
52. M. M. Al-Hamdan, T. M. Mayhew and M. E. Atkinson: A stereological study of blast cell transformation in mouse lymph nodes stimulated with dinitrochlorobenzene.

2.00 p.m. - A.G.M. - Anatomical Society followed by Session 10

53. Sheila K. Kemplay and B. P. Hayes: Laminar and regional organisation of retinal afferent terminals in the optic tectum of the pigeon.
54. G. Y. Mustafa: Some electron microscope observations on the human fetal trochlear nerve.
55. H. C. Dodson, L. H. Bannister and E. E. Douek: Effects of prolonged sound of moderate intensity (80 dB SPL) on the cochlea in young guinea pigs.
56. L. H. Bannister, H. C. Dodson and E. E. Douek: The effects of pentamycin and sound/gentamycin treatment on the cochlea of young guinea pigs.
57. M. N. Ghabriel and G. Allit: Studies on the regeneration of the node of Ranvier after nerve crush.

58. I. Whitmore: Innervation of striated muscle in the guinea pig oesophagus.

4.00 p.m. - Tea

4.30 p.m. - Session 11

59. D. J. Riches: Observations on the fine structure of the developing human common bile duct.
60. Ank A. W. ten Have-Oopbroek: Stages in prenatal lung development of the mouse. A new classification.
61. P. R. Vassall-Adams: The development of the avian atrio-ventricular bundle and its branches.
62. A.C. Gittenberger-de Groot: Abnormal histology of persistent ductus arteriosus, a primary or secondary phenomenon?
63. B. F. Martin and R. G. Tudor: The umbilical and paraumbilical veins of Man.

4.30 p.m. - Session 12

64. Sally A. Thompson and J. A. Gosling: Morphological and histochemical observations on human fetal and postnatal pelvic autonomic ganglia.
65. J. A. Gosling, J. S. Dixon and R. G. Lendon: A comparative study of the human male and female bladder neck and urethra.
66. Carolyn Musgrove, J. S. Dixon and J. A. Gosling: The intrinsic innervation of the ovarian and uterine (round) ligaments of the guinea pig and rat.
67. J. S. Dixon and J. A. Gosling: Light and electron microscopic observations on developing noradrenergic nerves in the rat ductus deferens.
68. G. Rabey: The analytic histomorphogram - a new statistical approach to organic morphology.

DEMONSTRATIONS

- D.1 A. R. Williams: Intravascular thrombi produced by acoustic microstreaming.
- D.2 A. D. Hoyes and Pauline Barber: Postnatal morphogenesis of the uterine epithelium in the rat.
- D.3 A. D. Hoyes and Pauline Barber: Ultrastructure of the uterine nerves during postnatal development in the rat.
- D.4 A. D. Hoyes and Pauline Barber: Ultrastructure of the lamina propria mucosae of the mouse vas deferens.
- D.5 A. D. Hoyes and Pauline Barber: Distribution of electron-dense deposits in ureteric smooth muscle incubated in strontium-containing solutions.
- D.6 H. M. Adair: A comparison of epithelial mitotic activity in experimental wounds and in human chronic ulcers.

- D.7 M. S. Woods and V. S. Gschmeissner: Healing of perforations in the pinna of rats and guinea pigs.
- D.8 W. M. Schupbach and J. G. Bearn: The change of location of the vermis from antiquity to the Renaissance.
- D.9 P. A. J. Hardy and G. P. Rabey: Analytic morphography of individual lumbar vertebrae.
- D.10 P. A. J. Hardy and G. P. Rabey: Analytic anatomy of lumbar intervertebral disc shape.
- D.11 P. A. J. Hardy and G. P. Rabey: Analytic anatomy of lumbar intervertebral disc size.
- D.12 M. J. Trenouth and G. P. Rabey: Craniofacial analytic morphography of the fetus.

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