

# British Society for Developmental Biology

CAMBRIDGE MEETING

APRIL 3rd-4th 1970

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The eighteenth meeting of the Society will be held in the Department of Zoology at the University of Cambridge, on Friday 3rd and Saturday 4th April, 1970. The majority of papers will be devoted to aspects of mammalian development.

**Accommodation, Meals and Refreshments.** Overnight accommodation will be available at St. Catharine's College for the nights of Thursday 2nd and Friday 3rd April. Breakfast, lunch and dinner will also be available at the College. Reservations for accommodation and meals may be made on the enclosed booking form which should be returned to Dr. Sydney Smith, President, St. Catharine's College, Cambridge. Please return the form as soon as possible but in any case not later than 23rd March.

There will be an inclusive charge of 5s. 0d. payable at the meeting, to cover the cost of light refreshments served during the course of the meeting.

**Applications for Membership.** The following have applied for, and are eligible for, membership of the Society. They will be formally proposed for membership during the meeting.

- Mr. B. D. Bavister (Physiological Laboratory, Cambridge).
- Dr. D. D. Cozens (Department of Toxicology, Huntingdon Research Centre).
- Dr. Morag Ellinson (Chester Beatty Research Institute, London).
- Dr. G. Goldspink (Department of Zoology, Hull).
- Dr. M. O'Hare (Chester Beatty Research Institute, London).
- Mrs. M. Scarles (Department of Anatomy, Cambridge).
- Dr. J. B. Walls (Department of Anatomy, Leeds).
- Mr. A. C. Webb (Department of Zoology, Southampton).
- Dr. D. G. Whittingham (Physiological Laboratory, Cambridge).

## Future Meetings of The Society.

The next meeting of the Society will be held jointly with the Society for Experimental Biology and will take place at Wye College, on 7th-11th September. The main feature of the meeting will be a symposium on 'Pattern Formation and Morphogenesis'. The annual General Meeting of the Society will be held on Friday, 11th September, 1970.

The 20th meeting of the Society will be held at the London Hospital Medical College on 4th-5th January, 1971.

*Hon. Secretary:* F. S. Billett,

Department of Zoology,  
The University,  
Southampton, SO9 5NH.

## PROGRAMME

Friday, 3rd April, 1970

### Session 1

Chairman: Dr. M. Balls

- 10.00 D. F. EWART (Department of Embryology, Aberdeen).  
The functional effects of exogenous RNA on chick fibroblast cultures.
- 10.30 O. K. WILBY and G. C. WEBSTER (School of Biological Sciences, Sussex).  
The determination of axial polarity in Hydra.
- 11.00 COFFEE.
- 11.30 MARGARET J. MANNING (Department of Zoology, Hull).  
Histogenesis of lymphoid organs in *Xenopus laevis* and the effect of early thymectomy.
- 12.00 GAYE MANWARING and J. C. CAMPBELL (Epigenetics Research Group, Edinburgh).  
Control mechanisms in lens regeneration in *Xenopus laevis*.
- 12.30 W. JACOBSON and G. GANDY (Strangeways Research Laboratory, Cambridge).  
Surfactant in the human foetal lung.
- 1.00 LUNCH.

### Session 2

Chairman: Professor C. R. Austin

- 2.15 P. H. TUFT (Department of Zoology, Edinburgh).  
Forces responsible for uptake of water by the rabbit blastocyst.
- 2.45 R. L. GARDNER (Physiological Laboratory, Cambridge).  
The differential properties of trophoblast and inner cell mass of the mouse blastocyst.
- 3.15 M. I. SHERMAN (Sir William Dunn School of Pathology, Oxford).  
Biochemical studies of mouse trophoblast.
- 3.45 TEA
- 4.30 D. G. WHITTINGHAM and R. G. WALES (physiological Laboratory, Cambridge).  
The fate of pyruvate during culture of early mouse embryos.
- 5.00 J. MULNARD (Faculty of Medicine, Brussels).  
*In vitro* development of fused cleaving eggs in the mouse.
- 5.30 I. B. WILSON, E. J. JENKINSON, ELEANOR BOLTON and ROSEMARY CUTTLER  
(Department of Zoology, Bangor).  
An experimental study of early differentiation and cell behaviour in the mouse embryo.
- 7.00 DINNER

**Saturday, 4th April, 1970**

**Session 3**

**Chairman, Dr. R. G. Edwards**

- 9.30 H. GRÜNEBERG (Department of Animal Genetics, University College, London).  
The tabby syndrome in the mouse.
- 10.00 ELIZABETH M. DEUCHAR (Department of Anatomy, Bristol).  
Axial differentiation and rotation in rat embryos after transection experiments **in vitro**.
- 10.30 C. E. ADAMS (A.R.C. Unit of Reproductive Physiology and Biochemistry, Cambridge).  
Development of the rabbit egg relative to its environment.
- 11.00 COFFEE
- 11.30 B. D. BAVISTER (Physiological Laboratory, Cambridge).  
Fertilization of Mammalian eggs **in vitro**.
- 12.00 C. POLGE (A.R.C. Unit of Reproductive Physiology and Biochemistry, Cambridge).  
Early development of the pig embryo **in vitro**.
- 12.30 C. F. GRAHAM (Sir William Dunn School of Pathology, Oxford).  
The early parthenogenesis of the mouse egg.
- 1.00 LUNCH

**Session 4**

**Chairman: Dr. F. Beck**

- 2.15 G. E. GRIFFIN and G. GOLDSPIK (Department of Zoology, Hull).  
The mechanism of myofibril assembly and the proliferation during the growth of mammalian muscle fibres.
- 2.45 R. G. TAR BUTT (School of Biological Sciences, Sussex).  
The kinetics of erythropoiesis in foetal mice.
- 3.15 K. E. WILLIAMS, B. WATKINS, J. B. LLOYD and F. BECK (Welsh National School of Medicine and London Hospital Medical School).  
Protein digestion by rat yolk-sac in organ culture.
- 3.45 A. E. WILD (Department of Zoology, Southampton).  
Transmission of proteins to the grey squirrel conceptus.
- 4.05 ELECTION OF NEW MEMBERS  
ANNOUNCEMENTS
- 4.15 TEA