

# British Society for Developmental Biology

LONDON MEETING

JANUARY 5th-6th 1970

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The seventeenth meeting of the Society will be held in the Department of Biology at the Middlesex Hospital Medical School, London, on Monday 5th and Tuesday 6th January, 1970. A major topic of the meeting is 'Oogenesis'; about half the contributions will be relevant to this subject. There will also be papers of general interest to developmental biologists.

Papers will be read in the fourth floor lecture theatre of the Windeyer building and demonstrations will be shown in the adjoining laboratory.

**Accommodation.** A limited amount of overnight accommodation will be available in Astor College which adjoins the Medical School. Reservations for this should be made as soon as possible by writing to the College Bursar, Miss Boucher, Astor College, Middlesex Hospital Medical School, Charlotte Street, London, W1P 1LD. Please mention your connection with the Society. The charge is 27s. 6d per night, exclusive of breakfast which will be available in the Medical School refectory.

**Meals and Refreshments.** Lunch will be available in the refectory of the Medical School. A charge of 5s will be made to cover the cost of tea and coffee, served during the course of the meeting. The buffet supper will take place in the Medical School on Tuesday, 6th January. The charge of 30s includes the cost of sherry and wine. A booking form is enclosed and should be returned to Dr. L. Hamilton (the local secretary), Department of Biology, Middlesex Hospital Medical School, Cleveland Street, London, W1P 1LD.

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

Miss Amata Hornbruch (Department of Biology, Middlesex Hospital Medical School).

Dr. R. B. Kemp (Department of Zoology, Aberystwyth).

Dr. R. F. Oliver (Institute of Animal Physiology, Babraham).

## Future meetings of the Society

The next meeting will take place at Cambridge on Friday 3rd and Saturday 4th April, 1970. The Summer meeting of the Society will be held jointly with the Society of Experimental Biology at Wye College from 7th—11th September, 1970. The main feature of this meeting will be a symposium on 'Morphogenesis and Pattern Formation'.

*Hon. Secretary* F. S. BILLET,

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

## PROGRAMME

**Monday, 5th January**

10.00 COFFEE

### **Session 1**

**Chairman: Professor M. Abercrombie**

11.00 M. O'HARE (Chester Beatty Research Institute, London).

The role of basement membrane materials in the 'induction' of vertebral cartilage.

11.30 JENNIFER DENT and P. H. S. SILVER (Department of Anatomy, Middlesex Hospital Medical School).

Basement membranes and the developing eye.

12.00 J. W. DODSON (Department of Zoology, Bristol) and ELIZABETH D. HAY (Department of Anatomy, Harvard).

Collagen secretion by an isolated epithelium in organ culture.

12.30 R. MAYNE, J. W. SANGER and H. HOLTZER (Department of Anatomy, University of Pennsylvania).

Mucopolysaccharide synthesis in cultures of chick amnion cells.

1.15 LUNCH

### **Session 2**

**Chairman: Dr. Louie Hamilton**

2.30 D. GINGELL (Department of Biology, Middlesex Hospital Medical School).

Contractile responses of the Amphibian egg surface.

3.00 JUDY HICKLIN (Department of Biology, Middlesex Hospital Medical School).

Positional information and polarity in Hydra.

3.30 P. R. BELL (Department of Botany, University College, London)

Features of general significance in the gametogenesis of land plants.

4.00 TEA

### **Session 3**

**Demonstrations**

4.00 — 6.00

Informal discussion of work presented as demonstrations.

6.00 COMMITTEE MEETING.

**Tuesday 6th January**

**Session 4**

**Chairman: Professor D. R. Newth**

- 9.30 T. REID and J. B. SOLOMON (Department of Bacteriology, Aberdeen).  
The onset of immunocompetence in foetal and neonatal animals.
- 10.00 L. V. TURNER and K. L. MANCHESTER (Department of Biochemistry, University College London).  
Changes in enzyme levels in the denervated rat hemidiaphragm.
- 10.30 COFFEE
- 11.00 Chr. P. RAVEN (Zoologisch Laboratorium, Utrecht).  
Evidence for the transmission of information by the follicle cells in *Limnaea*".
- 11.30 GEERT A. UBBELS (Hubrecht Laboratory, Utrecht).  
Development and cytochemistry of the zona radiata in *Limnes stagnalis* (L)
- 12.00 SUZANNE L. ULLMAN (Department of Zoology, Glasgow).  
An autoradiographic study of oogenesis in the flour beetle *Tenebrio molitor* L.
- 12.30 JUDITH CHEGWIDDEN (Department of Zoology, Chelsea).  
Electron microscope studies on yolk formation in the developing oocytes of *Schistocerca gregaria* (Forsk.) Orthoptera.
- 1.15 LUNCH

**Session 5**

**Chairman: Dr. J. D. Gurdon.**

- 2.30 P. FORD (National Institute for Medical Research, London).  
A unique ribonucleoprotein particle in oocytes of *Xenopus laevis*.
- 3.00 C. WYLIE (Department of Anatomy, University College, London).  
The onset of stable RNA synthesis in the early chick embryo.
- 3.30 G. AB. and R. A. MALT (Massachusetts General Hospital and Department of Surgery, Harvard).  
Processing of nucleolar RNA in mouse kidney.
- 4.00 TEA
- 4.30 T. G. BAKER (Department of Obstetrics and Gynaecology, Edinburgh).  
Oogenesis in human and monkey embryos.
- 5.00 P. BACISH (Department of Anatomy, Glasgow).  
Multinuclear ova in neonatal and infant human ovaries and their probable significance.
- 7.00 Informal buffet supper.

## DEMONSTRATIONS

H. FOX, L. HAMILTON and R. MAHONEY (Department of Zoology, University College, London, and Department of Biology, Middlesex Hospital Medical School).

Preliminary ultrastructural analysis of haploid and diploid tissues in *Xenopus* larvae.

H. FOX, R. MAHONEY and E. BAILEY (Department of Zoology, University College, London).

Ultrastructural investigation of pronephric degeneration in *Rana temporaria* larvae.

SUZANNE L. ULLMANN (Department of Zoology, University of Glasgow).

Oogenesis in *Tenebrio molitor* L.

KAWAKIB AL-MUKHTAR (Department of Zoology, Southampton).

Oogenesis in the Axolotl and in *Xenopus laevis* — formation and replication of mitochondria.

P. R. MORGAN and J. W. S. HARRIS (Department of Dental Pathology, London Hospital Medical College and Department of Anatomy, Royal Free Hospital School of Medicine).

Fate of palatal epithelium in Rat embryos with experimentally induced cleft palate — an E.M. study.

M. O'HARE (Chester Beatty Research Institute, London).

Differentiation of chick embryo somites in chorio-allantoic culture.