

# British Society for Developmental Biology

NOTTINGHAM MEETING

5th-7th APRIL, 1976

The 32nd Meeting of the Society will be held in the School of Biological Sciences, University of Nottingham, on 5th-7th April, 1976. A Workshop on **Immunofluorescence and Immunoperoxidase Labelling** will be held during the evening of Monday, 5th April. Tuesday, 6th April, will be devoted to papers on **Mammalian Development**, while most of the papers on Wednesday, 7th April, will deal with **Differentiation of Animal and Plant Cells and their Organelles**.

**Accommodation** will be in Cripps Hall, which is near to the School of Biological Sciences. Breakfast, lunch and dinner will be served in the Hall, including the **Conference Dinner**, on Tuesday, 6th April.

**Lectures** will be delivered in the Biology Lecture Theatre, School of Biological Sciences. Morning coffee and afternoon tea will be served in the adjoining Coffee Bar. The **Workshop** will take place in Cripps Hall.

**Maps** and further details will be sent to those who book for the conference. Cars should be parked on the Social Sciences Car Park, which is between the Hall and the School.

Please return completed booking forms, with the appropriate remittance, as soon as possible, but **not later than 8th March**, to :

Dr. Michael Balls  
Department of Human Morphology  
University of Nottingham Medical School  
Clifton Boulevard  
Nottingham NG7 2UH  
(Telephone 0602 - 700111 ext. 3191 or 3207)

A.V. <sup>7</sup> Vmies → Inv. → Vertebrate  
 abynot from prokaryotes  
 → eukaryotes (Bacteria → metazoan cells)

Melanin granules as  
 markers - ? would they  
 be picked up by follicle cells.  
 Nature of junction between  
 follicle cells & when do they  
 form?

**PROGRAMME**

**Monday, 5th April**

20.00 - 22.00 **WORKSHOP ON "IMMUNOFLUORESCENCE"** (at Cripps Hall)

Organizers: W. D. BILLINGTON  
 M. H. JOHNSON  
 A. E. WILD

The workshop will be in the form of introductory talks on selected aspects of immunofluorescence techniques and their application, followed by free discussion between speakers and all participants. The workshop is intended to be of interest to the uninitiated as well as the specialist. To help with the planning, would members wishing to attend please notify Dr. W. D. Billington, Department of Pathology, The Medical School, University of Bristol, Bristol BS8 1TD, as soon as possible.

**Tuesday, 6th April**

Chairman: **C. F. GRAHAM (Oxford)**

09.00 - 09.15 **OPENING REMARKS.**

09.15 - 09.40 M. MONK (University College, London).  
 "Expression of lactic dehydrogenase isozyme activities in early post-implantation mouse embryos".

09.40 - 10.05 E. D. ADAMSON (Oxford).  
 "Biochemical analysis of differentiation in mouse embryonic cells and teratocarcinomas".

10.05 - 10.30 M. H. JOHNSON, J. VAN BLERKOM and S. BARTON (Cambridge).  
 "Molecular studies on pre-implantation mouse embryos".

10.30 - 11.00 **COFFEE**

Chairman: **W. D. BILLINGTON (Bristol)**

11.00 - 11.25 A. H. HANDYSIDE, M. H. JOHNSON and S. BARTON (Cambridge).  
 "Evaluation of the techniques of immunosurgery for the isolation of inner cell masses from mouse blastocysts".

11.25 - 11.50 R. F. SEARLE, M. H. SELLENS, E. J. JENKINSON and W. D. BILLINGTON (Bristol).  
 "Analysis of major (H-2) alloantigen expression during cleavage, blastocyst differentiation and early post-implantation development in the mouse".

11.50 - 12.15 M. H. SELLENS and E. J. JENKINSON (Bristol).  
 "Antigen detection on mouse embryonic tissues using the mixed haemadsorption technique".

12.15 - 12.45 R. W. BALDWIN and R. C. REES (Nottingham).  
 "Phase-specific antigen expression in rat embryo cells and their relation to re-expressed embryonic components associated with rat tumour cells".

12.45 - 13.00 **GENERAL DISCUSSION.**

13.00 - 14.15 **LUNCH.**

Chairman: **R. L. GARDNER (Oxford)**

14.15 - 14.40 J. ROSSANT, L. OFER, H. ALEXANDRE and R. L. GARDNER (Oxford).  
 "Properties and fate of tissues isolated from early post-implantation mouse embryos".

14.40 - 15.05 G. M. MORRIS and M. SOLURSH (Cambridge and Iowa).  
 "Cephalic neural fold development in rat embryos".

15.05 - 15.30 M. H. KAUFMAN and C. E. STEELE (Cambridge).  
 "Deleterious effect of an anaesthetic agent on cultured rat embryos".

15.30 - 16.00 **TEA.**

Chairman: **M. H. JOHNSON (Cambridge)**

16.00 - 16.25 J. S. PERRY and R. B. HEAP (Cambridge).  
 "Steroid metabolism in embryonic and uterine tissues during early pregnancy".

Differentiation between egg & embryonic genome.

Rat hemi Red method & glycocalyx.




extra embryonic ectoderm.



- 16.25 - 16.50 P. A. DYER (Birmingham).  
"Development of mouse sperm and their post-coital distribution in the female tract as shown by autoradiography".
- 16.50 - 17.15 K. TYLER (Birmingham).  
"Differentiation and antigenicity of the mouse and rabbit sperm acrosome".
- 17.15 - 17.30 **GENERAL DISCUSSION.**
- 19.00 **RECEPTION.**
- 19.30 **CONFERENCE DINNER.**

**Wednesday, 7th April**

*Chairman: M. BALLS (Nottingham)*

- 09.00 - 09.20 M. DOYLE (Southampton).   
"Growth and development of herring and plaice larvae".
- 09.20 - 09.40 D. J. WATT (Aberdeen).   
"Teratology of the neural tube in the chick embryo".
- 09.40 - 10.00 M. J. MANNING (Hull).   
"Ontogeny of the immune system in *Xenopus laevis*".
- 10.00 - 10.25 F. S. BILLETT and E. ADAM (Southampton).  
"Ultrastructure of the mitochondrial cloud of the previtellogenic oocyte of *Xenopus laevis*".
- 10.25 - 10.50 P. C. L. JOHN, B. G. FORDE and E. COLE (Belfast).  
"Growth of the mitochondria and synthesis of some component respiratory enzymes during the cell cycle of *Chlorella*".
- 10.50 - 11.10 **COFFEE.**



*Chairman: E. C. COCKING (Nottingham)*

- 11.10 - 11.35 J. A. SARGENT and D. J. OSBORNE (Cambridge).  
"Hormonal control of fragmentation of the rachis of the leaf of *Sambucus nigra* and the ultrastructural changes associated with cell separation in the abscission zones".
- 11.35 - 12.00 R. D. MACLEOD (Newcastle).  
"The development of the apical meristem during the elongation of lateral roots of *Vicia faba* L.".
- 12.00 - 12.25 F. A. L. CLOWES (Oxford).  
"Cell production in root caps".
- 12.25 - 12.50 M. D. BENNETT, R. A. FINCH and I. R. BARCLAY (Cambridge).  
"Chromosome elimination in hybrid *Hordeum* seeds: its time, rate and mechanism".
- 12.50 - 14.00 **LUNCH.**

*Chairman: P. W. BARLOW (Cambridge)*

- 14.00 - 14.20 D. FORMAN and D. R. GARROD (Southampton).  
"Pattern formation in the slime mould, *Dictyostelium discoideum*".
- 14.20 - 14.40 D. R. GARROD (Southampton).  
"Greig migration and morphogenetic movements in the slime mould".
- 14.40 - 15.00 A. SWAN and D. R. GARROD (Southampton).  
"Adhesion of slime moulds grown in axenic medium".
- 15.00 - 16.00 E. C. COCKING (Nottingham).  
"Protoplast development and its significance".
- 16.00 - 16.30 **TEA.**
- 16.30 - 17.30 **DEMONSTRATIONS:**
- J. B. POWER (Nottingham).  
"Progressive approaches to interspecific somatic hybridization in the genus *Petunia*".
- P. K. EVANS (Nottingham).  
"The development of fusion and selection systems as a basis for somatic hybridization in the genus *Nicotiana*".
- M. DAVEY (Nottingham).  
"Uptake of genetic material into protoplasts".