

24th Meeting of the British Society for Developmental Biology
University of Bristol - - 25th to 27th July 1972



SYMPOSIUM

The Cell Cycle in Development and Differentiation

The twenty-fourth meeting of the British Society for Developmental Biology will be held in the University of Bristol from 25th to 27th July 1972. The main session will be in the large lecture theatre, E.29, in the Medical School, University Walk.

Coffee and Tea (10p) will be served either near the lecture theatre or in laboratory E.13, **to ticket holders only.**

Lunches (50p) will be in the Upper Refectory at Senate House, Tyndall Avenue.

Accommodation (single rooms) will be provided at Hiatt Baker Hall, Parry's Lane, Stoke Bishop. There is parking space for 100 cars at the Hall.

Transport.—As there are no car parking facilities for visitors near the University, special buses will take conference members from Hiatt Baker Hall to the Medical School, and back, at the beginning and end of each day. (Walking distance 40 minutes). Maps of the University and city centre will be sent to those who complete the booking form.

There will be a **University Reception** and **Conference Dinner** at Hiatt Baker Hall, on Tuesday, 25th July.

Excursion to Bath.—There will be an evening excursion by coach on Wednesday, 26th July, to visit the Roman Baths and the Museum of Costume in Bath, followed by a buffet supper in the Pump Rooms (inclusive cost £1.80).

Booking for the Conference.—Please complete the Booking Form and send it, with your cheque, to reach the Local Secretary, Dr E. M. Deuchar, Department of Anatomy, The Medical School, University Walk, Bristol, 8, **by 30th June.**

A **conference fee** of £1.50 per head will be charged to non-members of the Society.

PROGRAMME

Monday, 24th July

6.00-9.00 p.m. REGISTRATION

Tuesday, 25th July

- 9.00- 9.40 J. M. MICHISON (Edinburgh).
Differentiation in the cell cycle.
- 9.40-10.20 G. G. STEEL (Sutton).
The investigation of the intermitotic period.
- 10.20-11.00 M. ORD (Southampton).
Changes in nuclear and cytoplasmic activity during the cell cycle with special reference to RNA synthesis.
- 11.00-11.30 COFFEE
- 11.30-12.10 D. AMMERMANN (Tubingen).
Cell development and differentiation in the ciliate *Stylonychia mytilus*.
- 12.10-12.50 B. E. S. GUNNING (Belfast).
The cell cycle in *Chlorella*.
- 12.50- 2.15 LUNCH
- 2.15- 2.55 W. GRANT (Leicester).
RNA synthesis during the cell cycle in *Physarum polycephalum*.
- 2.55- 3.15 J. E. AARON and F. G. E. PAUTARD (Leeds).
A cell cycle in bone mineralisation.
- 3.15- 3.35 A. MORLEY, N. WRIGHT and D. APPLETON (Newcastle).
Testosterone induced cell proliferation and differentiation in the mouse seminal vesicle.
- 3.35- 4.05 TEA
- 4.05- 4.25 J. P. J. WILLIAMS (London).
An embryo specific action of stathmokinetic agent.
- 4.25- 4.45 R. P. MALEYVAR (London).
The pattern of mitosis and DNA synthesis in the presumptive neural plate of *Xenopus laevis*.
- 4.45- 5.05 E. SCHMATOLLA (Frankfurt).
Stimulation of differentiation of optic tectal neurons by cell interactions in teleost fish.

Wednesday, 26th July

- 9.00- 9.40 G. GUIDICE (Palermo).
Macromolecular synthesis in sea urchin development.
- 9.40-10.20 J. A. M. VAN BIGGELAAR (Utrecht).
Origin and significance of division asynchrony in early molluscan development.
- 10.20-11.00 COFFEE
- 11.00-11.40 L. HAMILTON (London).
The effects of irradiation on the cell cycle during early development.
- 11.40-12.20 P. CHIBON (Grenoble).
Cell proliferation in late embryos and young larvae of the newt, *Pleurodeles waltlii*.
- 12.20- 2.00 LUNCH
- 2.00- 2.40 C. GRAHAM (Oxford).
The cell cycle during early mouse development.
- 2.40- 3.20 M. H. L. SNOW (Edinburgh).
The differential effect of ^3H -thymidine upon two populations of cells in pre-implantation mouse embryos.
- 3.20- 4.00 G. T. RUDKIN (Nijmegen).
Cyclic synthesis of DNA in polytene chromosomes.
- 4.00- 4.30 TEA

Thursday, 27th July

- 9.00- 9.40 R. F. LYNDON (Edinburgh).
The cell cycle in the shoot apex.
- 9.40-10.20 P. BARLOW (Cambridge).
Mitotic cycles in root meristems.
- 10.20-11.00 M. YEOMAN (Edinburgh).
Changes in enzyme activities during the division cycle in cultured plant cells.
- 11.00-11.30 COFFEE
- 11.30-12.15 ANNUAL GENERAL MEETING
- 12.15- 1.45 LUNCH
- 1.45- 2.25 P. HARRISON (Glasgow).
Cell division and nucleic acid synthesis in erythropoiesis.
- 2.25- 3.05 R. COLE and R. TARBUTT (Brighton).
Control of cell multiplication and production of haemoglobin.
- 3.05- 3.45 D. A. HARDY and N. R. LING (Birmingham).
The mitotic activation of lymphocytes—biological and immunological consequences.
- 3.45- 4.15 TEA
- 4.15- 4.55 G. HARRIS (London).
DNA metabolism in the differentiation of antibody producing cells.
- 4.55- 5.35 T. RYTOMAA (Helsinki).
The control of cell division in mammalian cells.