

1988 (Newsletters #14, 15, 16)

SPRING 1988

This will be a joint BSDB/BSCB/Company of Biologists Symposium meeting, to be held in Bristol. The local organizer is Beverly Randle. The two Symposia are:

1. The BSDB/COB Symposium on 'SEGMENTATION', organized by Vernon French, Jonathan Cooke and Phil Ingham.
2. The BSCB/COB Symposium on 'STEM CELLS', organized by T.M. Dexter.

Other sessions will be announced later.

SPRING 1988

As usual the Spring meeting is a joint BSDB/BSCB/Company of Biologists Symposium meeting. This will be held in Bristol from Monday to Friday, 11th-15th April. The local organizer is Beverley Randle.

The BSDB/Company of Biologists Symposium is on

MECHANISMS OF SEGMENTATION

The organizers, Vernon French, Phil Ingham and Jonathan Cooke write:

Segmentation is a fundamental feature of body organization of the annelids and arthropods and, in a rather different form, of the chordates. During early development these diverse embryos each become subdivided into a precise number of similar but unique units arranged in a precise sequence, and the mechanisms by which this is achieved constitute a central problem of developmental biology.

Recently, rapid advances have been made in the study of segmentation, using techniques ranging from traditional embryology (lineage analysis and 'cut and paste' experiments) to the molecular analysis of gene products known to be involved in the process. However, the sheer volume of diverse experimental results can be perplexing for the non-specialist and thus this meeting has two major aims:

1. To integrate the embryological, genetical and molecular results from the best known embryo, that of *Drosophila*, to give a comprehensive picture of one mode of segmentation.
2. To consider the degree of similarity in mechanisms of segmentation in *Drosophila*, in other insects (where segments appear sequentially during local growth), in leeches (where segments are generated by a precise lineage), and in vertebrate embryos.

Speakers who have already agreed to attend include:

Akam (Cambridge), Davidson (Edinburgh), Dohle (Belgium), Gehring (Basle), Gruss (Heidelberg), Howard (Columbia), Jackle (Tubingen), Jacobson (Austin), Kimmel (Eugene), Kornberg (San Francisco), Laughon (Madison), Lawrence (Cambridge), Mahon (NIH), Martinez-Arias (Cambridge), Meinhardt (Tubingen), Sander (Freiburg), Stern (Oxford), Weisblat (Berkeley) and Weischaus (Princeton).

The BSCB/Company of Biologists Symposium is on

STEM CELLS

and is organized by T.M. Dexter, C.S. Potten and B.I. Lord.

In addition to the main Symposium topics, the BSDB is organizing sessions on fertilization and spermatozoa, while the BSCB is holding talks on gene amplification, second messengers and retroviruses. There will also be a BSCB workshop on in situ hybridization.

Full details of this meeting will be announced in the Autumn Newsletter

SPRING 1988

Bristol University, 12th-14th April 1988

As usual our Spring meeting is being held concurrently with that of the British Society for Cell Biology. The BSDB is organizing a Symposium on **Mechanisms of Segmentation** (to be published as a supplement to *Development*) as well as sessions on **The Regulation of Sperm Function and Fertilization** and **Teratomas**. There will also be a workshop on **Retroviruses as Lineage Markers**. The BSCB Symposium is on **Stem Cells**, and there will also be sessions on **Retroviruses, Gene Amplification** and **Second Messengers**. There will be a workshop on **In situ hybridisation**.

The booking form for this meeting is in the 'centre section' of the Newsletter, and details of the meeting are as follows:

MECHANISMS OF SEGMENTATION

This part of the meeting is organized by Vernon French, Phil Ingham and Jonathan Cooke. We thank the Company of Biologists Ltd. and American Airlines for sponsorship.

The programme is as follows:

Tuesday, 12th April

- 1.45 Introduction to symposium
- Session 1. SEGMENTATION IN ANIMAL DEVELOPMENT
- Chair: Prof. K. Sander (Freiburg, W. Germany)
- 1.55 K. Sander (Freiburg, W. Germany)
- 2.35 W. Dohle (Berlin, W. Germany)
- 3.15 D. Weisblat (Berkeley, USA)
- 3.55 TEA/COFFEE
- 4.25 Ch. Nusslein-Volhard (Tubingen, W. Germany)
- 5.05 H. Meinhardt (Tubingen, W. Germany)
- 5.45 DISCUSSION

Wednesday, 13th April

- Session 2. SEGMENTATION IN VERTEBRATES
- Chair: J. Cooke (London, U.K.)
- 10.00 C. Kimmel (Eugene, USA)
- 10.40 D. Davidson (Edinburgh, UK)
- 11.20 TEA/COFFEE
- 11.40 K. Mahon (Bethesda, USA)
- 12.20 P. Gruss (Heidelberg, W. Germany)
- 1.00 LUNCH
- 2.00 A. Jacobson (Austin, USA)
- 2.40 C. Stern (Oxford, UK)
- 3.20 DISCUSSION
- POSTER SESSION AND CONFERENCE DINNER

Session 3. GENE INTERACTIONS IN INSECT SEGMENTATION

Chair: P. Ingham (Oxford, UK)

- 9.00 R. Lehmann (Cambridge, U.K.)
- 9.40 K. Howard (New York, USA)
- 10.20 E. Weischaus (Princeton, USA)
- 11.00 TEA/COFFEE
- 11.30 P. Lawrence (Cambridge, UK)
- 12.10 A. Martinez-Arias (Cambridge, UK)
- 12.50 LUNCH
- 1.50 M. Akam (Cambridge, UK)
- 2.30 DISCUSSION

Session 4. MOLECULAR MECHANISMS OF SEGMENTATION GENE ACTION

Chair: P. Lawrence (Cambridge, UK)

- 2.40 H. Jackle (Tubingen, W. Germany)
- 3.20 A. Laughon (Boulder, USA)
- 4.00 TEA/COFFEE
- 4.20 D. Ish-Horowitz (Oxford, UK)
- 5.00 T. Kornberg (San Francisco, USA)
- 5.40 DISCUSSION

THE REGULATION OF SPERM FUNCTION AND DIFFERENTIATION

These sessions will be held on Tuesday, 12th April in the morning and all day Wednesday, 13th April. The programme includes:

- D.L. Garbers (Nashville). Signal transduction mechanisms in spermatozoa.
- R. Christen (Villefranche-sur-mer). The role of ions in the regulation of sperm function.
- J.-L. Dacheux (Nouzilly). The maturation of boar and of human spermatozoa.
- H.D.M. Moore (London). The development of mammalian sperm-egg recognition processes.
- R.M. Moor (Babraham). Protein re-programming, zona remodelling and inositide function in oocytes before and during fertilization.

Further information can be obtained from the organizer,

Dr. C. Ford,
 Department of Obstetrics and Gynaecology,
 Bristol Maternity Hospital,
 Southwell Street,
 Bristol BS2 8EG
 Tel: 0272 215411 Ext. 268

Time is available for some free communications during this part of the meeting. Anyone who wishes to contribute a talk should contact Dr. Ford.



Phil Ingham and Jonathan Cooke, organisers of the 1988 BSDB Spring Symposium, at the 2018 70th anniversary Spring meeting

TERATOMAS - CELLULAR AND MOLECULAR STUDIES

These talks take place in the afternoon of Thursday, 14th April. The programme includes:

- G.B. Pierce (Denver; CLIC plenary lecture). Teratocarcinoma cells as probes for regulation in the blastocyst.
P. Schofield (Oxford). Title to be announced.
M.F. Pera (Sutton). Stem cells of human teratomas.

Further information is available from:

Dr. K. Brown,
Department of Pathology,
University of Bristol,
University Walk,
Bristol BS8 1TD.
Tel: 0272 303030 Ext. 4980

The RETROVIRUSES AS LINEAGE MARKERS workshop is being organized by Jack Price and Mary Collins. It will take place in the evening of Tuesday, 12th April.

All parts of the meeting include poster sessions and, as usual, there will be a prize for the best poster by a graduate student. If you would like to present a poster, please enclose the title and an abstract of no more than 300 words with your booking form.

The BSCB Symposium topic is

STEM CELLS

The symposium is being organized by Mike Dexter, and the sessions are as follows:

Tuesday, 12th April

- Morning: STEM CELLS IN DEVELOPMENT : Wolpert (London), Gardner (Oxford), LeDouarin (France), de Rooij (Netherlands).
Afternoon: STEM CELL SIGNALS AND STEM CELL GENES : Harrison (Glasgow), Verma (USA), Marshall (London), Klein (Sweden).

Wednesday, 13th April

- Morning: STEM CELLS IN DIFFERENTIATING SYSTEMS : Johnson (Australia), Potten (Manchester), Owen (Oxford), Ferguson (Manchester).
Afternoon: DIFFERENTIATION IN STEM CELLS : Raff (London), Watt (London), Rudland (Liverpool), Bayreuther (Germany).

Thursday, 14th April

- Morning: TUMOUR STEM CELLS : Lord (Manchester), Heath (Oxford), Steel (London), McCulloch (Canada).

Further information is available from:

Prof. T.M. Dexter and Dr. Brian I. Lord,
Paterson Laboratories,
Christie Hospital and Radium Institute,
Wilmslow Road,
MANCHESTER M20 9BX.
Tel: 061 445 8123

Other BSCB sessions take place on the following days.



Tuesday, 12th April

Morning: RETROVIRUSES : (organized by Chris Marshall, London); speakers include Pirie (London), Land (London), Collins (London), Evans (Cambridge), Price (London), Wagner (Heidelberg).

Afternoon: GENE AMPLIFICATION : (organized by George Stark, London); speakers include Wahl (San Diego), Debatisse (Paris) and Rolfe (London).

Thursday, 14th April

Morning: SECOND MESSENGERS : (organized by Robin Irvine, Babraham); speakers include Downes (Welwyn), Houslay (Glasgow), Siddle (Cambridge), England (Welwyn).

The IN SITU HYBRIDISATION WORKSHOP is being held on Tuesday, 12th April in the evening, and is being organized by Mike Akam.

An special issue in the journal *Development* entitled "Mechanisms of segmentation" relates to this meeting and was edited by the meeting organisers Vernon French, Phil Ingham and Jonathan Cooke together with Jim Smith. It is available here:

<http://dev.biologists.org/content/104/Supplement>

DEVELOPMENT

MECHANISMS OF SEGMENTATION

EDITED BY

VERNON FRENCH, PHIL INGHAM, JONATHAN COOKE
AND JIM SMITH

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1988

Papers presented at a meeting of the
British Society for Developmental Biology
at the University of Bristol
April 1988

THE COMPANY OF BIOLOGISTS LIMITED

CAMBRIDGE

AUTUMN 1988

For September 1988 the Committee has proposed a 5-day course provisionally entitled 'Brush up your Development'. This meeting is intended to allow teachers of developmental biology to catch up with the latest advances, both in our understanding of development and in the techniques used to study the subject.

In the 'Announcements' section of the Newsletter Chris Ford makes a request for practical protocols, videos and teaching films that may be useful for this course.

AUTUMN 1988

For 18th-22nd September 1988 the BSDB is organizing a teaching course entitled 'Brush up your Development'. This will be held in Brighton and is intended to allow teachers of developmental biology to catch up with the latest advances, both in our understanding of development and in the techniques used to study the subject.

Chris Ford would be grateful to receive practical protocols, videos and teaching films that may be useful for this course.