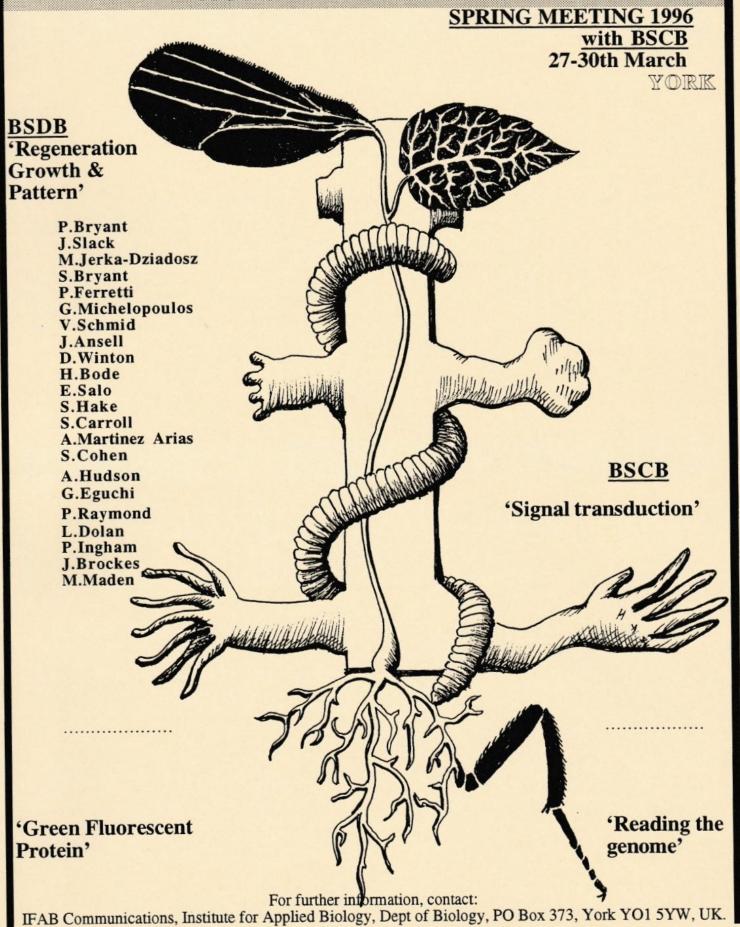
BRITISH SOCIETY FOR DEVELOPMENTAL BIOLOGY

AUTUMN 1995 - No. 32



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BSDB Newsletter No. 32 Autumn 1995

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SPRING SYMPOSIUM 1996

REGENERATION GROWTH AND PATTERN University of York

The Spring 1996 Symposium, entitled "Regeneration Growth and Pattern", will take place at the University of York from Wednesday 27th March to Saturday 30th March. As usual, our Symposium will run concurrently with that of The British Society for Cell Biology.

The main BSCB Symposium is entitled "Signal Transduction". In addition to the two main symposia, there will be a BSDB Workshop on "Fluorescent Green Protein" (on Thursday 28th) and a BSCB Workshop on "Reading the Genome" (on Friday 29th), plus the joint Poster Session.

A Registration Form, Abstract Form and general information about the conference venue can be found in the 'detachable' Centre Section of the Newsletter. The full scientific programme appears on the following pages. Following the procedure at last year's Symposium, the organisers of Regeneration Growth and Pattern will choose a few graduate student or post-doc poster abstracts for short (15 minute) platform presentations in the main symposium programme - so get your poster abstracts in on time!!

CHAIRMAN'S HOMILY

All developmental biologists must have been delighted when the news of this year's Nobel Prize was announced. We have all known for years that Ed Lewis, Janni Nusslein-Volhard and Eric Wieschaus deserved the award; whether you work on flies or fish, hindbrain or heart, diffusion or determinants, their influence has been incalculable. Perhaps we had been wondering how much longer we would have to wait before they did receive the award, but a pleasure deferred is a pleasure doubled, and on behalf of all BSDB members I'd like to say how pleased we are and I'd like to offer Ed, Janni and Eric our congratulations.

The sad news, reported by Peter Thorogood below, is that Jim Bee died earlier this year. Jim was a friend of many of us, and the Society offers his family and his many friends our deepest sympathy.

Jim Smith.

JAMES BEE - A Remembrance (1954-1995)

Jim Bee died on the 11th August this year, from a brain tumour. My first encounter with Jim was in 1977, when he arrived in my lab (then at Oxford) as an enthusiastic, 'larger than life' graduate student, to do an M.Phil. He was full of expectations and hungry for the 'Oxford' experience; I had never supervised a graduate student before. It was a learning experience for us both and I'm sure that I learnt as much from him as he ever learnt from me. Any supervisorial ability that I have now was acquired at least in part through mistakes made at Jim's expense. nevertheless, just fourteen months later, Jim's Masters thesis was passed by examiners who declared that ".....with a few more experiments, it could have been submitted for a doctorate". This achievement exemplifies Jim's character and 'work hard/ play hard' attitude to Life. The resultant paper was the first demonstration that tissue interactions underlie skeletogenic neural crest differentiation in amniotes.

Jim went on to do a Ph.D. at Kansas State University with Gary Conrad, working on corneal innervation. There, as at each stage in his academic career, he endeared himself to his colleagues. Gary and Abigail Conrad write that they will "...remember his constant bubbling enthusiasm, eagerness to debate new ideas,.....he was a joy to be near". A doctoral thesis and several seminal papers later, Jim returned to Europe to work with Klaus van der Mark at the Max Planck Institut fur Biochemie at Munich, on chondrogenesis, collagens and anchorins. Here, we re-established our working relationship through a collaborative project on the role of collagens in early craniofacial development. I have good memories of those visits to Munich (usually, for some inexplicable reason, in the depths of winter) and of Jim, Klaus and their colleagues taking me around various Bavarian hostelries.

Jim moved to London in 1984, to take up a lectureship in Anatomy at the Royal Veterinary College. Here he remained, through promotion to Reader, for the rest of his career. His hard work, high research standards, enthusiasm and sense of fun worked wonders for his department and colleagues. From an inauspicious start, in a lab in a converted stable block, he went on to establish a productive research group working on the dual themes of chondrogenesis and corneal development. His worldliness and sense of compassion made him an ideal choice as Senior Preclinical Tutor and several generations of students will have enduring memories of the support and guidance that Jim gave them. At the same time, he developed his teaching skills to the point that he was the recipient of awards, both national and international, for his teaching in the veterinary sciences.

It's now over three months since Jim died. Today I have just come from a developmental neurobiology meeting and it seemed strange not to meet him there, to chat over coffee or a drink and hear him excitedly relate his latest research findings or fill me in on the latest gossip in the research community. His conspicuous absence on these occasions is, for many of us scattered around the World, a harsh reminder of his premature and untimely death.

BSDB Spring Meeting: University of York, 27 - 30 March 1996

SYMPOSIUM 'REGENERATION GROWTH AND PATTERN'

Organisers: Vernon French (Edinburgh); Jonathan Slack (Bath)

Thursd	lay 28 March	
PLENA 9.00	RY LECTURE P Bryant (Irvine, USA)	Genetic approaches to the problem of cell proliferation control
	<u>J Slack</u> (Bath, UK)	Regeneration: the final frontier of developmental biology
10.45	M Jerka-Dziadosz (Warsaw, Poland)	Genetic approach to ciliate pattern formation: does cytoskeletal organisation provide a prepattern?
11.50	S Bryant (Irvine, USA)	Regeneration: it's in our hands
12.25	P Ferretti (London, UK)	Regeneration of fins and limbs and their different response to retinoic acid
14.10	G Michelopoulos (Pittsburgh, USA)	HGF as a regulator of hepatocyte growth and differentiation
14.45	V Schmid (Basel, Switzerland)	Gene expression in the life cycle and the <i>in vitro</i> transdifferentiation of striated muscle cells of a hydrozoan medusa
15.20		Contributed paper 1
16.05	<u>J Ansell</u> (Edinburgh, UK)	Haematopoiesis: blood from a clone
16.40	D Winton (Cambridge, UK)	
17.15		Contributed paper 2
PLENA	<u>29 March</u> ARY LECTURE - BS <u>P Cohen</u> (Dundee	СВ)
10.10	H Bode (Irvine, USA)	Homeobox and forkhead genes in the patterning of hydra
10.45	E Salo (Barcelona, Spain)	Hox genes and the specification of body axes during bidirectional planarian regeneration
11.50	S Hake (Albany, USA)	Genetic control of meristem functions
12.25	S Carroll (Madison, USA)	Development and evolution of arthropod appendages

14.10 S Cohen Cell interactions across compartment boundaries: the basis for pattern (Heidelberg, Germany) formation during limb development in Drosophila 14.45 A Hudson Dorsoventrality in leaves of Antirrhinum majus (Edinburgh, UK) 15.20 Contributed paper 3 16.05 G Eguchi Transdifferentiation of pigmented epithelial cells as a basic process of (Okazaki, Japan) lens regeneration 16.40 P Raymond Role of cellular interactions in retinal regeneration in teleost fish (Ann Arbor, USA) 17.15 Contributed paper 4 Saturday 30 March PLENARY LECTURE - BSCB 9.00 A Whittinghofer (Dortmund, Germany) The function of Notch as a receptor for wingless in Drosophila 10.10 A Martinez Arias (Cambridge, UK) 10.45 L Dolan Diffusible signals in the patterning of an epidermis (Norwich, UK) 11.50 P Ingham Control of proliferation and patterning by segment polarity genes in (London, UK) Drosophila appendages 12.25 J Brockes Origin and positional identity of progenitor cells in amphibian limb (London, UK) regeneration 13.00 <u>M Maden</u> The role of retinoic acid in regeneration (London, UK)

BSCB SYMPOSIUM 'SIGNAL TRANSDUCTION'

Organiser: Christopher Marshall (London)

Thursday 28 March P Parker (London, UK) C Heldin (Uppsala, Sweden) C Marshall (London, UK) S Courtneidge (San Francisco, USA) P Shaw (Nottingham, UK) B Neel (Boston, USA) L Mahadevan (London, UK) A Pendergast (North Carolina, USA) J Smith (London, UK) (London, UK) A Ridley R Klein (Heidelberg, Germany) (Edinburgh, UK) S Grant D Bohman (Heidelberg, Germany) E Nigg (Geneva, Switzerland) Saturday 30 March (Marburg, Germany) R Mulle PLENARY A Whittinghofer (Dortmund) S Mittnacht (London, UK) M Saraste (Heidelberg, Germany) (London, UK) G Peters M Katan (London, UK) M Doree (France) I Campbell (Oxford, UK) Friday 29 March J Heath (Birmingham, UK) PLENARY P Cohen (Dundee)

WORKSHOPS

Thursday 28 March: BSDB: 'GREEN FLUORESCENT PROTEIN'

Friday 29 March: BSCB: 'READING THE GENOME'

FUTURE BSDB MEETINGS

AUTUMN 1996, University of Bath.

SO Years of Positional Information?

This meeting, organised by Jim Smith and Cheryll Tickle with Jonathan Slack as local organiser, will be held at the University of Bath from 11th-13th September 1996 inclusive.

INVITED SPEAKERS:

Kathryn Anderson (Berkeley) Sean Carroll (Madison) Steve Cohen (Heidelberg) Jonathan Cooke (London) Denis Duboule (Geneva) John Gurdon (Cambridge) Brigid Hogan (Nashville) Nigel Holder (London)

Herbert Jackle (Gottingen)

Thomas Jessell (Columbia)

Cynthia Kenyon (San Francisco)
Robb Krumlauf (London)
Peter Lawrence (Cambridge)
Mike Levine (San Diego)
Hans Meinhardt (Tubingen)
Doug Melton (Harvard)
Elliot Meyerowitz (Cal Tech)
Christiane Nusslein-Volhard (Tubingen)
Jonathan Slack (Bath)
Cliff Tabin (Harvard)

A full programme, together with Registration and Abstract forms, will appear in the next issue of the Newsletter.

SPRING 1997, University of Warwick.

Genetic Control of Vertebrate Development?

This meeting will be organised by Nigel Holder, Rosa Beddington, and Phil Ingham. It will be held jointly with the Genetical Society at the University of Warwick from 19th-21st March 1997 inclusive.

The meeting will focus on advances in the dissection of the molecular mechanisms underlying inductive interactions in the vertebrate embryo. New information is likely to derive primarily from genetic screens currently

being performed on the zebrafish and from targeted gene mutation in the mouse. These approaches will reveal the players involved in important signalling pathways, but may also allow eventual understanding of functional redundancy. Many of these pathways will be conserved and repeated in various combinations, and the symposium programme is expected to include some work on invertebrates (worms and flies) which relates squarely to the main theme of the meeting.

Further details will appear in the next issue of the Newsletter

Topics for Future Society Meetings

One of the major tasks of the BSDB Committee is to select topics for future meetings and then to ensure that these meetings are well organised and successful. It is obviously crucial that meetings are supported by the members of the Society, and we always welcome suggestions for future topics. If you have an original idea

for a major Spring Symposium, a smaller two day Autumn meeting, or for a one day workshop, please get in touch with the Meetings Secretary, Ian Jackson (see list of addresses).

OTHER MEETINGS OF INTEREST

March 1996 is clearly 'National Regeneration Month', as illustrated below......

15th Symposium of the Singer Society for Regeneration and Development

'MODELS OF REGENERATION: LOWER VERSUS HIGHER VERTEBRATES'

This meeting, organised by Patrizia Ferretti, will be held at The Institute of Child Health, University of London, from 21st-22nd March 1996.

The conference format will include 30 min talks and short presentations selected from the submitted Abstracts, which must be received, together with the Registration Form, by 15th January 1996.

Speakers will include:

H.Wallace (Birmingham, UK) R.Nordlander (Ohio, USA) B.Carson (Michigan, USA)

J.Brockes (London, UK)

S.Dunnett (Cambridge, UK)

R.Borgens (Purdue, USA) J.Edwards (Seattle, USA) A.Forge (London, UK) K.Muneoka (Tulane, USA)

T.Partridge (London, UK) H-G.Simon (Princeton, USA)

J.Clarke (London,UK)

Further programme details, Registration Form and Abstract Form from:

Dr Patrizia Ferretti, Developmental Biology Unit, Institute of Child Health, University of London, 30 Guilford Street, London WC1N 1EH.

5th INTERNATIONAL LIMB DEVELOPMENT AND REGENERATION CONFERENCE

This meeting, organised by Malcolm Maden, will be held at the University of YORK, from 25th-27th March 1996 - immediately preceding the BSDB Symposium.

The daily format will be the same as at previous conferences, with a plenary speaker followed by short platform presentations. All attendees are encouraged to present data in the form of either a talk or a poster.

For Registration Details and further information, contact:

Dr Malcolm Maden, Developmental Biology Research Centre, King's College London, 26-29 Drury Lane, London WC2B 5RL.

ZEBRAFISH DEVELOPMENT AND GENETICS

The 2nd biennial meeting on Zebrafish Development and Genetics, organised by Nigel Holder (London), Nancy Hopkins (MIT), Phil Ingham (London), Christiane Nusslein-Volhard (Tubingen) and Monte Westerfield (Oregon), will be held at the Cold Spring Harbor Laboratory on 24th-28th April 1996.

The format of the meeting will include short talks selected by the organisers from submitted poster abstracts. Abstract and registration materials are available from the address below. The abstract deadline is February 7th 1996. There is particular encouragement for young people to attend and applications have been made for government and industrial funds to provide at least partial support for

graduate students and postdocs*

Session Epiboly and gastrulation

Inductive interactions Morphogenesis Pattern regulation

Neural crest and head development

CNS development

Blood, heart & intermediate mesoderm

Genetic mapping & cytogenetics

Gene transfer, gene expression & new

methodologies

Chair

M.Mullins (Tubingen)
C.Thisse (Strasbourg)
C.Kimmel (Oregon)
D.Duboule (Geneva)
J.Eisen (Oregon)

S. Wilson (London)

M.Fishman (Massachusetts) J.Postlethwaite (Oregon)

N.Hopkins (MIT)

*(BSDB members can, of course, apply to the Society for support)

Abstract and registration details from:

Cold Spring Harbor Laboratory
The Meetings & Courses Office,
1 Bungtown Road, PO Box 100,
Cold Spring Harbor, NY 11724-2213.

e-mail: meetings@cshl.org; Tel: (516) 367 8346; Fax: (516) 367 8845

World Wide Web site at http://www.cshl.org/

SYMPOSIUM ON SYNAPTIC PLASTICITY

This meeting, organised by David Price and Richard Ribchester, will be held at the University of Edinburgh on 3rd July 1996.

The Symposium will be concerned with the search for common mechanisms for regulating the structure and function of nerve connections during development and after nerve injury. The main focus will be on functions of activity, neurotrophic factors and cell adhesion molecules in synaptic plasticity.

Speakers will include: Visual cortical plasticity D.Price (Edinburgh)

L.Maffei (Pisa, Italy) C.Shatz (Berkeley, USA)

D.Willshaw (Edinburgh)

Neuromuscular plasticity

R.Ribchester (Edinburgh)
J.Lichtman (St.Louis, USA)
W.Thompson (Austin, USA)

M-M.Poo (San Diego, USA)

F.Walsh (London)

Further programme details, contact:

Dr R.Ribchester or Dr D.Price, Dept of Physiology, University Medical School, Teviot Place, Edinburgh EH8 9AG.

Fax: (44) 0131 650 6527; e-mail: R.R.Ribchester@ed.ac.uk or D.J.Price@ed.ac.uk

GRADUATE STUDENT COMMITTEE MEMBER

A major function of the BSDB is to help graduate students increase their experience and forge contacts with other scientists. Graduate students are the future of Developmental Biology and of the Society. It is vital that students have a means to communicate any suggestions, comments or complaints to those who make the decisions, so there is a graduate representative serving on the Committee. Currently, however, there is a vacancy (Richard Twyman got doctored!) so **please VOLUNTEER**, by approaching any member of the Committee.

DISCOUNT JOURNAL SUBSCRIPTIONS

Members of the **BSDB** are entitled to discounted personal subscription rates to a number of leading developmental biology journals.

The Company of Biologists offers a special personal subscription rate to 'Development', of £130 (instead of £140). An application form for Development is included in the Centre Section of the Newsletter. In addition, members can subscribe to BioEssays at the reduced rate of £60 - see page 15 of the Newsletter for details.

Academic Press continues to offer a very significant discount on 'Developmental Biology' for BSDB members. For 1996, the normal personal overseas subscription rate is

\$403, but society members can subscribe at the reduced rate of \$230. An <u>order form</u> is enclosed with this edition of the Newsletter.

Elsevier offer a reduced rate to members for 'Trends in Genetics'. For 1996, the member's rate is £62 (instead of £78) - orders and payments should be addressed to: Subscriptions, Elsevier Trends Journals, Oxford Fulfilment Centre, PO Box 800, Kidlington, OXON UK OX5 1DX.

We are negotiating with Current Biology Ltd for reduced subscriptions. The likely outcome is a 50% reduction on Current Biology and a 10% reduction on Current Opinion in Genetics & Development. Members will be contacted by the publishers.

BSDB TRAVEL GRANTS

The Committee of the Society has decided to increase the funds available to support travel by postgraduate or postdoctoral members to attend meetings and also workshops and practical courses.

To apply for a travel grant, members should write to the treasurer giving details of the proposed visit and the breakdown of the amount of money requested (see Note 1). They should enclose with their application a letter of support from their supervisor or laboratory head and, if apppropriate, the abstract of the poster or talk they intend to present.

Please note:

1. BSDB travel grants are for travel at the lowest rate (student or standard class ticket), conference fees and accomodation, but not conference dinners! Where possible, the whole

amount will be covered. The grants currently being given are: BSDB meeting - the full amount; other meetings - £100-£150; practical courses - up to £300. These amounts will, however, have to be lowered if demand increases.

- 2. Applications will be grouped and reviewed at the end of each month, so members should apply 2-3 months before they need the grant.
- 3. No application will be considered for a refund on money already spent.
- 4. No more than three people from one lab will be supported for any one meeting.
- 5. Only applications from members will be considered.

Jonathan Bard, Treasurer.

Louie Hamilton Fund

Louie Hamilton, the distinguished developmental biologist who was disabled in the latter part of her life, left a bequest to the

Society with the intention that the interest should provide travel support for members who are disabled. Applicants who qualify for this fund should contact the Treasurer.

CENTRE SECTION

This "Centre Section" can be removed without damaging the rest of the Newsletter. It contains a form for subscribing to Development (below), a membership application and banker's order form, a subscription ammendment form and the Registration and Abstract forms for the Spring Symposium Meeting at York University.

Marra M	Ammana A
meagn	opment

Members of the BSDB are entitled to a reduction in the subscription price
to 'Development'. The general 1996 personal subscription is £140 but, for
BSDB members, it is (only) £130. This price includes the casebound
Supplement volume which, for 1996, will be the proceedings of the
"Regeneration Growth and Pattern" symposium.

To: Development

The Company of Biologists Ltd, Bidder Building, 140 Cowley Road, Cambridge, CB4 4DL UK.

Please enter my subscription to **Development** for 1996. I undertake not to pass my subscription copies on to a library. I enclose a cheque for £130 made payable to "The Company of Biologists Ltd".

Signature:
Name:
Address:

Other CoB Journals, including BioEssays, the Journal of Cell Science and the Journal of Experimental Biology, are also available at reduced rates. For BioEssays, see page 15; JCS is £99 and JEB is £99. To subscribe, write to the above address with your cheque and a signed undertaking that you will not pass your individual copy on to a library.

BSCB/BSDB SPRING MEETING: UNIVERSITY OF YORK 27 - 30 March 1996

The Joint Spring Meeting of the British Societies for Cell Biology and for Developmental Biology will take place at the University of York.

PROVISIONAL OUTLINE PROGRAMME

Wednesday 27 March	Registration in the Exhibition Centre			17.00 - 21.00
Thursday 28 March	Plenary Lecture (BSDB) Symposia (BSDB) Regeneration Growth and Pattern (BSCB) Signal Transduction		09.00 - 10.00 10.10 - 17.30	
	Workshop (BSDB)	Green Fluorescent Pi	rotein	10.10 - 17.30
	BSCB and BSDB AC	GMs		17.35 - 18.30
	Poster Session		19.30	- 22.00
Friday 29 March	Friday 29 March Plenary Lecture (BSCB) BSCB/BSDB Symposia Workshop (BSCB) Reading the Genome			09.00 - 10.00 10.10 - 17.35 10.10 - 17.30
	Public Lecture		18.00	- 19.00
	Conference Banquet,	National Railway Muse	eum	19.30 - 23.00
Saturday 30 March	Plenary Lecture (BSC BSCB/BSDB Sympo			09.00 - 10.00 10.10 - 13.30

Public Lecture

Dr Gerard Evan (ICRF) will give a lecture 'What is cancer, and what are scientists doing about it?'. The lecture is open to members of the public as well as members of the Societies.

Travel to York

Leeds/Bradford Airport is less than two hours from York. A bus leaves the airport for Leeds railway station at 20 minutes past every hour; the journey takes about 50 minutes. A taxi from the airport to Leeds station costs about £11.00 and takes about 30 minutes. A direct train service is now available between Manchester Airport and York, takes two hours and costs £19.50 return. From London Heathrow take the underground to Kings Cross station. From London Gatwick take a train to Victoria Station and from there the underground to Kings Cross.

There are excellent rail links to York from London Kings Cross station. Train fares from Kings Cross to York vary depending on day and time of departure. Tickets can range from £35 - £98 for a return and £34 - £49 for a single. Cheaper Apex train fares, which must be booked a minimum of seven days in advance, can be obtained if you are travelling in the UK from a location more than 150 miles from York (£35 return, £34 single). Taxis from outside York station to the University take about 15 minutes and cost around £2.50. Buses leave the railway station (Nos. 4/5) for the University every 12 minutes during the day. North Sea Ferries dock at Hull. National Express Coaches leave Hull Docks and stop in York.

Update Information

Details given here may be subject to change. Now that the Internet is used by many biologists, information on this conference will be made available and continuously updated on the World Wide Web. From 17 November, information will be accessible via the University of York's WWW server. The URL is: http://www.york.ac.uk/depts/biol/bscbdb/meeting.html

REGISTRATION PLEASE PHOTOCOPY BSCB/BSDB SPRING MEETING: UNIVERSITY OF YORK 27 - 30 March 1996

Name		•••••			Prof/Dr//	Mr/Ms
Address						
Telephone	***************************************	Fax	e	mail		
neld at the National	Railway Museum	and is limited to	the first 350. R	egistration include	nite rooms. The bands the programme, a pplied with this for	bstracts, tea
	Society	Membershi Status	ip	Registration Fee	on	
	BSCB BSDB	Society mem Student mem Non-member Student non-r	ber	£50 £15 £75 £30		
	WED 27	THURS 28	FRI 29	SAT 30	TOTALS	
Lunch (£6/day)	100				£	
Dinner (£8/day)			*		£	
OR Banquet* (£30)			*		£	
Bed and Breakfast Standard (£21.50)					£	
Bed and Breakfast En-suite (£30)					£	
Registration					£50 (Delete as £15 applicable) £75 £30	
Credit card charge (5%)					£	
				TOTAL	£	
Note on Friday choose either dinner or Banquet						
Special dietary re	quirements	•••••	•••••			
Cheques should be not the 'University of	nade payable to the York'	e 'University of Yo	ork'. Bank drafts	IN STERLING da	rawn on a UK bank m	ade payable
Credit Cards Accepted VISA ACCESS (MASTERCARD) Subject to a 5% surcharge)						
fumber Expiry Date Signature						

Return this form, and the abstract form if applicable by 31 January 1996 to:
BSCB/BSDB Meeting, IFAB Communications, Department of Biology, University of York, PO Box 373, York YO1 5YW
Tel: 44 (0) 1904 432940 Fax: 44 (0) 1904 433029 email: biocomms@york.ac.uk

by 31 January 1996

BSCB/BSDB SPRING MEETING: UNIVERSITY OF YORK 27 - 30 March 1996

Abstracts from invited speakers and poster presentations will be included in the Abstract Book. Type the abstract to fit in the box below (12.5cm x 18cm) using 12 point typeface (Times Roman if possible). Title in CAPITALS, Authors and Addresses in Upper and Lower Case. Indicate authors attending the meeting with an asterisk*. Leave a line blank between the address and the text. Please, if possible include a disk of the text, for PC or Mac, in any word-processing format but also include an ASCII (plain text) file.

	50 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m
Poster boards will be 1m square. Po	esters to be affixed by Velcro which will be provided at the registration desk.
Please circle details:	
a) Invited Speaker	
or	
Poster Presentation	
b) Subject of Presentation*	
Signal Transduction	
Regeneration	
Cell Biology	
Developmental Biology	
*Please select the category that best fits your poster presentation	
c) Eligibility for poster prize	
•BSCB student	
•BSDB student	
Return the completed abstract form, computer disk together with your cheque (payable to the <i>University of York</i>) to:	
IFAB Communications Department of Biology University of York PO Box 373 York Y01 5YW	

APPLICATION FOR BSDB MEMBERSHIP

Full name	:		Title	Degrees	· · · · · · · · · · · · · · · · · · ·
Profession	al address:				
Research in	iterests:				
I wish to apply Applications	y for Ordinary (£20)/Si must be endorsed by tw	tudent (£7.50) member	rship of the S	Society (delete as a	
			Name:		
			Name:		•••••
Please return t Prof. For Society U	this form, together with J.M.W.Slack, Scho Universe	the completed Banker ool of Biology & ersity of Bath, Bat	Biochemis	try, South Build	Secretary:
Ackno	owledged:	Mai	iling list:		
To:	The Manager,				
			Bank		
Please pay to t	Account no: Barclays Ba	ink plc, P.O. Box ise, 212 Regent St	No. 4BP,	gy,	
the sum of £ succeeding unlinstruction of I	(less this instruction is a payment to the British S	pounds) on October litered in writing by me Society of Developmen	 e. This instruction 	iction replaces any	previous
Signature:			Account	No:	
Name*:			Date :		
Address:					

^{*} as shown on cheque book.

SUBSCRIPTION REMINDER

Membership subscriptions were increased several years ago to the current rates of £20 for full members and £7.50 for graduate students. A few members are still paying at old rates - those paying only £10 will be deleted from the mailing list after one more reminder (those contributing less than this have already gone!). Please check your bankers order to ensure that you are up-to-date. If you have not yet upgraded it, please fill in the form below and send it to your own bank, (not to the Treasurer or the Secretary of the Society).

Please note that the graduate student rate of £7.50 is applicable for 3 years only, after which you must pay the full rate, regardless of your status.

Jonathan Bard, BSDB Treasurer.

* as shown on cheque book.

To:	The Manager,
	Bank
Please pay to	the British Society for Developmental Biology, Account no: 80867675 Barclays Bank plc, P.O. Box No. 4BP, Liberty House, 212 Regent Street, LONDON W1A 4BP.
the sum of £ succeedind un instruction of	(pounds) on October 1st 1995 and on the same day each year alless this instruction is altered in writing by me. This instruction replaces any previous payment to the British Society of Developmental Biology, which should be cancelled.
Signature:	Account No:
Name*:	Date :
Address:	

NOMINATIONS FOR BSDB COMMITTEE

The AGM of the Society will be held during the York Symposium. One item will be the election of new committee members to replace those retiring in 1996.

If you wish to nominate someone for the committee, please fill in this form, including the candidate's consent, and return to the secretary, not later than 6 weeks before the date of the AGM.

					(Signa	ture of candidate)
I	agree	to	serve	if	elected:	
S	econde	r:		••••		
P	roposer	::	•••••			
N	ame:	•	•••••	••••	• • • • • • • • • • • • • • • • • • • •	

Return completed form to:

Prof. J.M.W.Slack

School of Biology & Biochemistry,

South Building, University of Bath, Bath BA2 7AY.

British Society for Developmental Biology Financial statement - Sept 1994-Aug 1995

CAPITAL ACCOUNT		
1993/4	Investment	<u>1994/5</u>
£12,952	National Savings	£13,696
£584	Treasury Stock	£584
£48,879	Barclays deposit a/c	£11,623
£518	Barclays current a/c	£12,197
	Barclays: Louie Hamilton a/c	£2,552
	Abbey National savings a/c1	£23,811
	Abbey National 2 year bond ²	£34,000
£63,933	Current Assets	£98,463
£2,030	Less allowance for uncashed cheques	£4,455
£61,903	Net Assets	£94,008

	Income		
£11,098	Membership (standing	order)	£12,316
£1,875	Membership (cheques))	£1,091
£10,918	Royalties		£407
£1,304	Edinburgh meeting		£2,485
£2,967	Symposium grant (Co.	B)	£12,410
£160	Capitation fee (CoB)		£9,134
£303	Interest		
£2,030	Barclays current a/c	£354	
£30,655	Barclays deposit a/c	£1,414	
£8,194	National savings	£774	1
	Treasury stock	to come	e ⁴
£38,849	Abbey National	£764	
	Total		£3,306
£4,455			
£3,740	Total income		£38,849
S	£1,875 £10,918 £1,304 £2,967 £160 £303 £2,030 £30,655 £8,194 £38,849 £4,455	£11,098 £1,875 £10,918 £1,304 £2,967 £160 £303 £2,030 £30,655 £8,194 £38,849 £4,455 Membership (standing Membership (cheques) Royalties Edinburgh meeting Symposium grant (Co Capitation fee (CoB) Interest Barclays current a/c Barclays deposit a/c National savings Treasury stock Abbey National Total	### Membership (standing order) ### Membership (cheques) #### Royalties #### Royalties #### Edinburgh meeting #### Symposium grant (CoB) ##### Capitation fee (CoB) #### Barclays current a/c #### #### ###### ####################

Notes

- This account, available to aid handicapped members, has not hitherto been included in the
 accounts.
- 2. This account pays interest annually in March and includes, for the first time, £23,786, the surplus on BSDB practical courses; its interest is intended to provide grants (maximum of 50%) for members to go on courses, and £1,055 was spent in 1994/5 for this purpose.
- No allowance is made for the Newsletter as money for this was allocated in a previous year and placed in an ICRF account. Any debit will be covered in 1995/6.
- 4. This sum (£34) was lost by Barclays when they changed our account number it will turn up!

Wanted?

The new Developmental Biology Group at the University of Bath wants back issues of **DEVELOPMENTAL BIOLOGY**, preferably 1987-1994 inclusive. Price to be paid by negotiation.

If you have a run that is surplus to requirements, please contact:

Jonathan Slack

School of Biology & Biochemistry, South Building, University of Bath,

Bath BA2 7AY.

Tel: 01225 826597 Fax: 01225 826779

e-mail j.m.w.slack@bath.ac.uk

EMBRYO BANKING FACILITIES

The Medical Research Council has established two mouse embryo banks, one at the MRC Experimental Embryology and Teratology Unit (EETU) and the other at the MRC Radiobiology Unit (RBU), to provide a service to the scientific community to safeguard unique genetic stocks. These banks already contain a wide range of important mutant, transgenic and inbred lines that are available for recovery and supply (as frozen embryos or breeding nuclei). Now the banks offer services for the collection and storage of stocks.

The preferred method for preserving stocks is for the client to supply embryos for immediate cryopreservation. Alternatively, the EETU will receive limited numbers of mice to produce embryos for storage. Under certain circumstances, EETU bank staff will travel to collect embryos at the site of origin. Both banks can supply frozen embryos for stock rederivation or live mice.

For further information regarding this service and the associated charges, please contact:

The Embryo Bank Co-ordinator,

MRC Experimental Embryology and Teratology Unit,

St. George's Hospital Medical School,

Cranmer Terrace, Tooting, London SW17 ORE.

Tel: 0181 725 2834/2824; Fax: 0181 767 9109

or

The Embryo Bank Co-ordinator, MRC Mammalian Genetics Unit, Chilton, Didcot, Oxon, OX11 0RD.

Tel: 01235 820 666 Ext 451; Fax: 01235 835 691

Post-doc research positions

Two postcdoctoral positions are available to study the involvement of TGFß and its receptors in early mammalian development, specifically in primitive haematopoiesis and vasculogenesis. The approaches taken will be extensive molecular developmental analysis of existent TGFß1 knock out mice and the generation and analysis of TGFß receptor transgenic mice, using a binary tetracycline-inducible system. Applicants should be experienced in post-implantation murine embryology, transgenic mouse production and analysis, or be expert molecular biologists familiar with gene transfer and expression technology. They would join an established group of 10 working on related projects.

The posts are MRC funded on the RA1A scale, dependent on age and experience.

Applications with full CV and three referees should be sent to:

Dr Rosemary Akhurst, Dept of Medical Genetics, Glasgow University,

Royal Hospital for Sick Children, Yorkhill, Glasgow G3 8SJ.

Tel: 0141 201 0365; Fax: 0141 357 4277; e-mail: gpva06@udcf.gla.ac.uk.

BOOK REVIEW

SEX DETERMINATION, DIFFERENTIATION AND INTERSEXUALITY IN PLACENTAL MAMMALS

R.H.F.Hunter Cambridge University Press 310 pages Hardback ISBN 0-521-46218-5

Hunter's book is neither a standard textbook nor a collection of papers, but is a series of review-style chapters, each covering a different aspect of sex determination, differentiation and intersexuality, These chapters are broad-ranging and encompass topics such as gonad differentiation, anomalous sexual development in sheep and goats, and asymmetries of the reproductive system. The theme of the book results from asking the questions "How and why do males become male and females become female?" and "What are the consequences if the decision is not incisive?". In order to answer these questions, Hunter describes the known genetic components that contribute to mammalian sex determination and the processes of male and female gonad and genital tract development. He continues by describing abnormal sexual development in farm animals, lab mice and humans in some detail, including examples of freemartinism, intersexuality, sex reversal, testicular feminisation and chimeric individuals.

Parts of this book make fascinating reading. In particular, the chapter on "Anomalous development in domestic species' is excellent. This is clearly the author's area of expertise and he offers an expansive account of the altered anatomy, physiology and endocrinology of individuals with abnormal development. The text is accompanied by a series of highly informative figures, drawings and photographs. Hunter describes his own work and that of others in a detailed, clear and enthusiastic manner. A particular strength, which is consistent throughout this book, is that it is extremely thoroughly referenced: it is an excellent source for tracing both original papers and more recent reviews. For this reason alone, it deserves a place in any reference library.

Sadly, this book has a number of weaknesses. Despite being very well-researched, the author fails to really draw together the areas of sex determination, differentiation and intersexuality. For example, Hunter discusses the role of certain hormones in normal sexual development in one chapter, and describes abnormal sexual differentiation of the same animal in another chapter, but never links the two together (eg by postulating a role for altered hormone levels as a cause or an effect of the abnormalities). Similarly, Hunter describes current hypotheses of the molecular basis of sex determination in some detail, but does not attempt

to use this knowledge to hypothesise about the molecular basis of intersexuality. In this way, the author offers no new insights in these fields.

In an early chapter on "Mechanisms of sex determination', Hunter maks a worrying statement. In a discussion on genes involved in sex determination, he describes candidates for the sex determining genes, the discovery of SRY, its architecture and its DNA-binding ability. The latter is described in terms of the HMG box, which is able to bind to specific DNA sequences. This specificity, Hunter writes, 'is determined not only by the recognition helix that sits in the major groove of the DNA, but also by a flexible segment at the aminoterminal end of the homeobox...' But SRY and HMG box-containing genes do not belong to the family of homeobox genes (nor do they bind to the major groove of DNA), thus rendering the ensuing discussion of homeobox genes, complete with an out-of-date diagram of mouse and Drosophila Hox gene clusters, totally irrelevant. Perhaps the author should have commissioned this chapter to a molecular biologist.

It is hard to imagine exactly by whom this book would be read. To some extent, the author achieves his aim for the book as a text for advanced undergraduates and new postgraduates: the chapters on abnormal development would be interesting to almost anyone, and are certainly clear enough for a newcomer to the field to easily understand. In other places, however, the style of writing is so extraordinarily long-winded that the author's point is not always obvious. For example, the following sentence (which appears on p 109-110) could surely be simplified; 'In that the dogma, even to this day, is that events within the genital tract are subject to regulation by secretion of the gonads and, in females, in due course also by those of the extra-embryonic membranes (ie by placental hormones), anomalous differentiation and development of the duct system may be an expression of perturbed function in the neighbouring gonad(s)"*

Like many books of this type, it is no sooner published that it is out-of-date. Although available for the first time in 1995, most of the text was written by the middle of 1993 and updated late in 1993. Thus there remains a gap in excess of a year, during which there have been many new findings, particularly in the field of molecular biology. his book therefore serves better as an introduction to the fields of sex determination and differentiation, and as a source of original papers, rather than as a complete account.

Colette Johnston,
Dept of Craniofacial Development, Guy's Hospital,
London.
(* succinctly so! - Ed.)

BSDB COMMITTEE members

and other useful addresses

The main function of the BSDB Committee is to organise our meetings, from deciding on appropriate topics to arranging organisers and venues. If you have any ideas on topics for a good meeting, or on a good venue, don't hestitate to convey them to a committee member. The officers of the society have specific functions. Jim Smith (Chairman) keeps order; Jonathan Slack (Secretary) deals with the membership list; Jonathan Bard (Treasurer) handles the subscriptions and awards travel grants; Ian Jackson (Meetings Secretary) does most of the work in arranging meetings and deciding on venues; Vernon French (Publications Secretary) assembles this Newsletter and helps edit the Symposium volume. These Officials will be happy to answer any questions relating to their subjects.

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BSDB on WWW

We now have a web entry which will give key information about the Society. It can be found at:

http://www.ana.ed.ac.uk/BSDB

WHERE ARE YOU NOW?

This Newsletter is our only way of keeping in touch with the membership of the Society, so it is really important that we have your **CORRECT CURRENT ADDRESS**. The cost of printing and mailing the Newsletter twice a year represents a significant proportion of the membership fee so, if we send it to the wrong place, not only are you missing out on the Society's news, you are also wasting your money (as well as our time and effort)!!

If you have moved (but this copy of the Newsletter has been re-directed to you) or you are about to move, or you have a current address for any of the members listed below, PLEASE fill in the Change of Address slip and return it to the Secretary, Jonathan Slack, at the address shown. Thank you.

Dr. J. Adu Miss S. Barnes Dr. P.J. Kelley Dr. P. Rooney Dr. A.T. Wood

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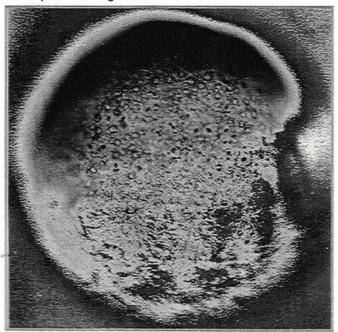


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Zebrafish early embryo: photograph courtesy of Lilianna Solnica-Kretzel)

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