# British Society for Developmental Biology

TRENT PARK MEETING 5/6th SEPTEMBER 1985

Thursda	5th New Hall	
9 00am	Joint BSCB/BSDB Symposium on "Epithelial Session maintenance and wound healing"  Discussion Leader  John Couchman (Unilever, Colworth)	<u>a 1</u>
9 00	Ian Mackenzie (Iowa) "Epithelial mesenchymal interactions in wound healing"	
9 30	Marilyn Baltz (Hammersmith) "Serum amyloid P component - a plasma and tissue component"	
10 00	Julia Pollack (Hammersmith) "Regulatory peptides and the skin"	
10 30	Coffee	
11 00	Martin Green (Unilever) "Role of the EGF receptor in epithelial main	tenance
11 30	John Couchman (Unilever) "Basement membrane function in epidermal grand repair"	
1 00	Lunch	
2 00pm -	4 05pm New Hall Contributed Papers Session	n 2a
2 00	G J Swanson and J H Lewis (Kings College) "Paths followed by sensory nerve fibres in embryonic chick wings"	
2 25	P P Monro and J R Shearer (Southampton) "The control of shape in the embryonic chick epiphysis"	
2 50	Karen M Bell (Oxford) "Division stimulating activity of the ZPA and	AER"
3 15	D Amanze and J Cohen (Birmingham) "Maternal effects on the early development of zebra fish, <u>Brachydanio</u> <u>nerio</u> "	
3 40	R Raizada (Kanpur) "Studies on the action of certain chemosterilands on reproductive organs of the squirrel"	
4 05	Tea	
	the continuous features and the design that is	

Student Union Bar
Poster Demonstrations

2 00 onwards

Session 2b

Thursday 5th The Theatre Mammalian Get Together Session 3

Organiser: M H Johnson (Cambridge)

Session 1

10 30am - 1 00pm Discussion leaders: Anne McLaren and Mary Lyon

Azim Surani (Cambridge) Pronuclear origin and development

Bruce Cattanach (Harwell) Chromosomal imprinting

David Whittingham (Carshalton) Functional germ cells from ethanol activated

mouse oocytes

Robb Krumlauf (Mill Hill) Transgenic mice

Sarah Howlett (Cambridge) Cell cycle dependent synthesis of a set of

proteins in the one-cell mouse embryo

Lunch

1 00 - 2 00pm

Session 2

2 00 - 4 00pm Discussion leaders: Brigid Hogan and Chris Graham

Claudio Stern (Oxford) Somite formation and spatial organisation

Simon Hunt and
Gillian Morriss-Kay (Oxford)

A new skeletal mutant in the rat

Peter Holland (Mill Hill)

Phylogenetic distribution of homoeo-box sequences

Ian Jackson (London) The homoeo-box in mammals

Tea

4 00 - 4 30pm

Session 3

4 30 - 6 30pm Discussion leaders: Keith Willison and Marilyn Monk

Jose McConnell (Cambridge) Probing the early mouse embryo

Philippe Brûlet (Paris) Distribution of repetitive sequences

Nick Hastie (Edinburgh) B2 - repetitive sequences in post-implantation development

Christine Watson (London) and Peter Rigby

Gene expression in murine embryonal carcinoma cells

Session 4

Dinner

6 30 - 8 00pm

Session 4

8 00 - 10 30pm Discussion leaders: Richard Gardner and Anne Warner

Tom Fleming (Cambridge) A new, non-invasive lineage marker

Sammy Lee (London) Gap junctional interaction in mice

John Heath (Oxford) Growth factors in development

Alan Handyside (Carshalton) Regulation of size

Martin Johnson (Cambridge) How is the timing of compaction regulated?

Friday, 6th New Hall Towards a molecular basis for morphogenetic signalling

Organiser: R R Kay (LMB)

P C Newell (Oxford) cAMP signalling and cell movement in Dictyostelium 9 30 10 05 R R Kay (LMB) Dictyostelium morphogens Coffee 10 45 S Hoffmeister (Heidelberg) Hydra head peptides and other morphogens 11 15 W Müller (Heidelberg) Retinoic acid and morphogens in Hydra 11 50 S Keeble and M Maden (NIMR, London) Evidence for the presence of 12 25 cytoplasmic retinoic acid binding proteins in amphibian limb tissues, and their possible role in regeneration (Abstract in Session 5).

1 00 Lunch

2 05 M Wilcox (LMB) Drosophila position-specific antigens

2 40 P Ingham (ICRF, Mill Hill) Localisation of transcripts of segmentation genes in Drosophila

3 15	D Hames (Leeds) Cell type specific gene expression in <u>Dictyostelium</u>
3 50	Tea thin and I levis (king's College, Lordon) Formal development
4 20	J G Williams (ICRF) Developmental gene expression in Dictyostelium
4 55	J B Gurdon (Cambridge) Cytoplasmic specification in amphibian eggs
Friday,	6th The Theatre Session 5
	Pattern formation and limb development
	Organisers: J R Hinchliffe and D Summerbell
15	Chairman: D Summerbell
9 00	S A Newman (Valhalla, New York) Matrix dynamics and the developing limb
	1) Molecular aspects of limb development
9 30	S Keeble and M Maden (Mill Hill, London) Evidence for the presence of cytoplasmic retinoic acid hinding proteins in amphibian limb tissues, and their possible role in regeneration
9 45	J Lee and C Tickle (Middlesex Hospital Medical School, London) The early effects of retinoic acid on the outgrowth of chick wing buds
10 00	S Wilde (Mill Hill, London) Location and metabolism of ara-C after administration to early limb bud stage chick embryos
10 15	J A Bee (Royal Veterinary College, London) Cell-cell interactions during prechondrogenic condensation
10 30	C P Cottrill (Middlesex, London) and P T Sharpe (Sheffield) The application of aqueous two-phase partition to the study of chick limb bud
	10 45 - 11 15 - COFFEE
	Chairman: C Tickle
	2) <u>Cellular aspects of limb development</u>
11 15	K Muneoka (Univ. of California, Irvine, USA) Cellular contribution and pattern formation in amphibian limbs
11 45	C W Archer (Institute of Orthopaedics, Stanmore), M T Bayliss (Kennedy Institute, London) and C P Cottrill (Middlesex, London) Proteoglycan synthesis by populations of limb mesenchyme cells in vitro

- 12 00 K K H Lee and D A Ede (Glasgow) Evidence of chick limb myogenic cell movement using autoradiography
- 12 15 P Martin and J Lewis (King's College, London) Normal development of the skeletal pattern in chick wing buds denuded of dorsal ectoderm from an early stage
- 12 30 P Rooney (St Andrews) and C W Archer (Stanmore) Cell proliferation in the developing ulna of the chick embryo

#### 12 45 - 2 00 LUNCH

#### Chairman: J R Hinchliffe

## 3) Experimental aspects of limb development

- 2 00 V French and T Rowlands (Edinburgh) The insect limb and the rest of the thoracic segment
- 2 15 L Wolpert and A Hornbruch (Middlesex, London) Positional signalling does not account for the development of the humerus: evidence for an isomorphic prepattern model
- 2 30 G Müller (Vienna, Austria) Ancestral muscle patterns in the chick hind limb
- 2 45 N G Stephens and N H K Holder (King's College, London) How may a specific pattern of neuromuscular connections be reformed?
- 3 00 R V Stirling and D Summerbell (Mill Hill, London) The innervation of duplicated chick wings

#### 3 30 - 4 00 TEA

#### Chairman: M Maden

## 4) General aspects of pattern in the limb

- 4 00 B K Hall (Halifax, Canada) Critical periods, growth rate and atavisms in limb development and evolution
- J M Hurle and Y Gaman (Badajoz, Spain) Interdigital tissue chondrogenesis induced by surgical removal of the ectoderm in the embryonic chick leg
- 4 40 B C Goodwin and H Sawitzki (Open University) Modelling the frequency of supernumerary limbs
- 4 55 T H Horder and M Reeve (Oxford) Aspects of the evolution of the pentadactyl limb



### From newsletters

AUTUMN 1985 Dates amd venue to be confirmed. Topics will include Pattern formation

Limb development
Mammalian Development
Cell Recognition
Slime mould development

## AUTUMN 1985 LONDON

This will also be a joint meeting with the BSCB. It will be held on September 5th and 6th at Middlesex Polytechnic, Trent Park, in North London.

Topics

Thursday 5th - "Wound Healing" organizers J. Couchman and B. Hogan.

- "Mammalian Development" organizer Martin Johnson
Friday 6th - "Cell recognition" organizer R. Kay.
- "Limb development and patterning" organizers D.
Summerbell and R. Hincliffe.

The BSCB component of the meeting will be as follows:-

"The Extracellular Matrix: receptors, genes and signals" - Organizers B. Hogan and C. Hughes. 1 - 5 September, 1985

## Topics

Molecular genetic analysis of matrix components, receptors for matrix molecules, cell adhesion molecules and neural development, matrix modifications in development and neoplasia, epithelial maintenance and wound healing.

## Speakers

F. Barelle (Oxford), B. Olsen (Rutgers), Y. Courtois (Paris), M. Pope (London), J. Couchman (Bedford), E. Ruoslahti (La Jolla), G. edelman (New York), M. Sumper (Regensburg), D. Edgar (Munich), C. Tickle (London), M. Johnson (Cambridge), R. Timpl (Munich), P. Liesi (Mill Hill), R. Trelstead (Rutgers), K. Von der Mark (Munich), A. Vaheri (Helsinki).

The meeting will be limited to 150 participants. In

The meeting will be limited to 150 participants. In addition to talks by invited speakers, time will be available for short free communications and posters. Applications should be sent, including title of proposed free communication or poster, to either organiser BEFORE 1st April, 1985. The registration fee is £20 for ESCB members or £25 for non-members. Full board and accommodation is £20 per day.



# BSDB/BSCB Autumn Meeting, Trent Park 5th and 6th September, 1895

Trent Park is a conference centre, part of Middlesex Polytechnic, just North of London. This two day meeting will follow the BSCB Meeting on 2nd-4th September. (Details below).

# Thursday 5th

- Joint BSCB/BSDB Symposium on "EPITHELIAL MAINTENANCE AND WOUND HEALING" Organiser: John Couchman (Unilever). Speakers include: I. Mackenzie (Iowa), M. Pepys, J. Polack (Hammersmith), M. Green (Unilever).
- (ii) "MAMMALIAN DEVELOPMENT". Organiser: Martin Johnson (Cambridge).

This discussion meeting will be in four sessions. Topics and speakers include:

Repeat sequences in development - P Brulet (Paris), N. Hastie (Edinburgh), C. Watson (London), J. McConnell (Cambridge).

Homoeo-boxes and somites - I. Jackson (London), B. Hogan (Mill Hill), G. Morriss-Kaye (Oxford), R. Keynes (Cambridge), C. Stern (Oxford).

Imprinting - Azim Surani (Cambridge)
Cell Interactions - S. Lee (London), J. Heath (Oxford), A. Handyside (Carshalton).

Transgenic Mice - Robb Krumlauf (Mill Hill).

Cycling proteins - S. Howlett (Cambridge).

Cell lineages - R. Beddington (Oxford).

Also taking part: - Chris Graham, Richard Gardner, Marilyn Monk, Anne Warner, Anne McLaren and many others.

Discussion is informal, everyone welcome. Further enquiries to Martin Johnson, Anatomy Dept., Downing Street, Cambridge, CB2 3DY.

N.B. Members are invited to contribute papers and posters for this meeting. Please send abstracts (before 7th July) to: Mike Snow, MRC Mammalian Devt. Unit, 4 Stephenson Way, London, NW1 2HE.

The BSCB Meeting at Trent Park immediately precedes ours, and begins on Monday 2nd Sept. 1985.

## Sessions Include:

Molecular and genetic analysis of matrix components Cell surface receptors for matrix components Matrix modification in development and neoplasia.

Registration forms for the BSCB meeting are available from: Colin Hughes, NIMR, The Ridgeway, Mill Hill, London NW7 1AA.