

1998 (#34, 36, 37)

SPRING 1998, University of Lancaster.

'Developmental Pathways'

This meeting will be organised by **Paul Sharpe, Anthony Graham & Phil Ingham**. It will be held jointly with the BSCB the University of Lancaster from **31st March-3rd April 1998**, inclusive.

Developmental biologists are beginning to make links between cell signalling and gene transcription in developmental processes. At the same time, cell biologists are making rapid progress in unravelling the complexities of transduction of signals within cells. This meeting aims to bring these two fields together by concentrating specifically on developmental

topics where progress is being made in understanding the interactions between different molecules involved in a "developmental pathway". Links between cell signalling, extracellular matrix, signal transduction and gene transcription will be covered in a developmental context. Speakers will include cell and developmental biologists grouped into sessions with common themes covering the cell biology of different signalling pathways and their roles in development.

Further details will appear in the next Newsletter

BSDB SPRING MEETING, 1998
DEVELOPMENTAL PATHWAYS

University of Lancaster

The **Registration Form** can be found in the 'detachable' **Centre Section** of the Newsletter.

The **Programme** of the meeting appears on **pages 4-6**.

---Note: Registration & Abstract Deadline is JAN. 30TH---

Spring Meeting: Lancaster University, 31 March-3 April 1998

Developmental Pathways

Tuesday 31 March

Arrival and registration

Wednesday 1 April

9.00 **Plenary Lecture**

Richard Axel (New York) **The molecular biology of smell**

10.00

10.30 *Tea/coffee*

11.00 Henry Kronenberg (Boston) **Parathyroid hormone related protein and bone development**

11.30 Hans Clevers (Amsterdam) **β -catenin/TCF signalling in development and cancer**

12.00 *Young Investigator Presentations*

12.30 Bruce Bowerman (Oregon) **Wnt signalling in *C. elegans***

13.00 *Lunch*

14.00 Patrick Lemaire (Marseille) **Regionalisation of the amphibian organiser**

14.30 Andy McMahon (Cambridge, Mass.) **Signalling pathways in vertebrate limb morphogenesis**

15.00 Clive Dickson (London) **A role for fibroblast growth factor signalling in pregnancy dependent mammary gland development**

15.30 *Tea/coffee*

16.00 Pat Doherty (London) **Collaboration between cell adhesion molecules and growth factor receptors in neuronal plasticity**

16.30 Masatoshi Takeichi (Kyoto) **The role of cadherins in CNS wiring**

17.00 *Young Investigator Presentations*

18.00-19.30 *Poster session*

Thursday 2 April

9.00 **Yamanouchi Lecture**

Paul Nurse (London) **Polarity mutants in *S. pombe***

10.00 Cathie Martin (Norwich) **The control of epidermal cell shape during petal development in flowers and the relationship to other types of epidermal specialisation in plants**

10.30 George Coupland (Norwich) **The transition from vegetative growth to flowering in *Arabidopsis***

11.00 *Tea/coffee*

11.30 Caren Chang (Maryland) **The ethylene hormone-response pathway in *Arabidopsis***

12.00 Jeff Wrana (Toronto) **TGF β signalling and MAD-related proteins**

12.30 Irma Thesleff (Helsinki) **Signalling pathways in the regulation of tooth morphogenesis**

13.00 *AGM and lunch*

14.00 Vicky Rosen (Cambridge, Mass.) **Functional analysis of BMP receptors**

14.30 Ali Hemati Brinvalou (New York) **The molecular basis of vertebrate neural induction**

15.00 *Young Investigator Presentations*

15.30 Norbert Perrimon (Boston) **Signalling pathways that regulate the cytoskeleton in *Drosophila***

16.00 *Tea/coffee*

16.30 David Ish Horowitz (London) **Regulation of segmentation in flies and vertebrates**

17.00 Andrew Tomlinson (New York) **Long range signalling and planar polarity in the *Drosophila* eye**

17.30 *Presentation of the BSDB Waddington medal*

19.00 *Conference Dinner, Jazz and Disco*

Friday 3 April

9.30 Tony Hunter (La Jolla) **Signalling by receptor protein-tyrosine kinases and phosphatases**

10.00 Vasillis Pachnis (London) **The GDNF/Ret signal transduction pathway during mammalian embryogenesis**

10.30 David Wilkinson (London) **Role and regulation of Eph receptors and ephrins**

11.00 *Tea/coffee*

11.30 Tony Pawson (Toronto) **Modular protein interactions in tyrosine kinase signalling**

12.00 Jeff Williams (London) **The regulation of cellular differentiation in *Dictyostelium* by a STAT protein**

12.30 *Lunch and end of meeting*

BSDB Workshop - "Skin"

Wednesday 1 April 1998

1. Adhesion and Cytoskeleton in Skin Development

10.00 Elaine Fuchs (Chicago) Smith & Nephew Lecture **Functions of the epidermal cytoskeleton**

10.30 Fiona Watt (London) **Role of β -1 integrins in regulating keratinocyte growth and differentiation**

11.00 *Tea/Coffee*

2. Development of Skin Appendages

11.30 Cheng-Ming Chuong (Southern California) **Early molecular events in feather morphogenesis**

12.00 Colin Jahoda (Durham) **Adult skin appendage cell interactions - beyond the bare necessities**

12.30 *Lunch*

3. Regulation of Skin Development

14.00 Danielle Dhouailly (Grenoble) **Early molecular regulation of skin development**

14.30 Thomas Sargent (Bethesda) **Function of the homeobox gene *Dlx3* in epidermal differentiation**

15.00 Carolyn Byrne (Manchester) **Patterned terminal differentiation and barrier formation in the late gestation foetus**

15.30 *Tea/Coffee*

16.00 Martyn Chidgey (Manchester) **Desmocollins in skin development**

4. Skin Diseases and Development

16.30 Robin Eady (London) **Lessons in epidermal biology from human knockouts**

17.00 Mark Ferguson (Manchester) **Scar free healing in the embryo and the control of scarring in the adult**

BSDB Evening Workshop - "GSK-3"

Wednesday 1 April 1998

19.30 Adrian Harwood (London) **GSK-3 regulation in *Dictyostelium***

20.00 Dario Alessi (Dundee) **The insulin signalling pathway regulating GSK-3 activity**

20.30 Jim Woodgett (Toronto) **A thousand and one ways to inactivate GSK-3**

21.00 Trevor Dale (Sutton) **Wingless regulation of GSK-3**

21.30 Phillip Gorden-Weeks/Patricia Salinas (London) **Wnt signalling in cerebellar neurons and the regulation of MAP1B phosphorylation by GSK-3 β**

AUTUMN 1998, University of Sussex.

'The development of sense organs'

This meeting will be organised by **Julian Lewis, Karen Steel** and **Guy Richardson** and will be held at the University of Sussex, from Wednesday **16th September** to Friday **18th September** 1998. The programme will include talks on development of sense organs both of vertebrates and of invertebrates, including eyes, ears, noses, bristles and skin. The emphasis will be on the peripheral organs rather than the central connections.

We hope to include the following **invited speakers**:-

W.Gehring (Basel)
W.Harris (Cambridge)
S.Wilson (London)
M.Freeman (Cambridge)
F.Guillemot (Strasbourg)
C.Bargman (San Francisco)
K.Steel (Nottingham)
G.Richardson (Sussex)

C.Haddon (London)
D.Fekete (Purdue)
T.Whitfield (Sheffield)
A.Ghysen (Montpellier)
A.Jarman (Edinburgh)
M.Fitzgerald (London)
G.Lewin (Berlin)

AUTUMN MEETING 1998
16 - 18 SEPTEMBER - UNIVERSITY OF SUSSEX

THE DEVELOPMENT OF SENSE ORGANS

Invited speakers include:

Macagno (New York), Mombaerts (New York),
Van Heyningen (Edinburgh), Strutt (Sheffield),
Guillemot (Strasbourg), Steel (Nottingham),
Ghysen (Montpellier), Jarman (Edinburgh),
Wilson (London), Freeman (Cambridge),
Richardson (Sussex), Haddon (London),
Barlow (San Diego), Harris (Cambridge),
Fekete (Purdue), Whitfield (Sheffield),
Fitzgerald (London), Lewis (London),
Lewin (Berlin), Jan (San Francisco)

*Investigating
the rich
variety of
sense organs
both of
vertebrates
and
invertebrates,
including eyes,
ears, noses,
bristles and
skin.*

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

BSDB AUTUMN MEETING, 1998 THE DEVELOPMENT OF SENSE ORGANS

University of Sussex

The **Registration Form** can be found in the 'detachable' **Centre Section** of the Newsletter.
The **Programme** of the meeting appears on **pages 3-4**.

**** Note: Registration, Payment and Abstract Deadline is 1ST JULY ****

PROGRAMME

Wednesday 16 September

12.00 **Registration**
Lunch

I. Introduction and Eyes

- 2.00 **J. Lewis** (London) Introduction: Some questions about sensory development
2.30 **M. Freeman** (Cambridge) EGF receptor signalling strategies in *Drosophila* sensory development
3.00 **D. Strutt** (Sheffield) Determination of polarity in the *Drosophila* compound eye
3.30 *Tea/coffee*
4.00 **V. van Heyningen** (Edinburgh) PAX6 in development, disease and evolution
4.30 **W. Harris** (Cambridge) The frog eye: It keeps on growing and growing and ...
5.00 **S. Wilson** (London) Development of the pineal organ in zebrafish

Evening: **POSTERS**

Thursday 17 September

II. Sensilla

- 9.00 **Y.-N. Jan** (San Francisco) (**Elsevier Trends Journals Lecture**) Asymmetric cell division and the control of sense organ cell fate
9.30 **A. Jarman** (Edinburgh) Common and divergent proneural gene functions in the formation of *Drosophila* sense organ precursors
10.00 **A. Ghysen** (Montpellier) Organizing sensory projections in fly and fish
10.30 *Tea/coffee*

III. Contributed Papers *to be announced*

12.45 - 2.30 *Lunch*
POSTERS

IV. Ears and Lateral Line

- 2.30 **D. Fekete** (Purdue) (**Defeating Deafness Lecture**) Compartments and boundaries in the developing inner ear
3.00 **T. Whitfield** (Sheffield) Development of the lateral line
3.30 **C. Haddon** (London) Development of sensory patches in the zebrafish ear
4.00 *Tea/coffee*
4.30 **G. Richardson** (Sussex) Pattern formation in the chick inner ear
5.00 **K. Steel** (Nottingham) Genetic approaches to mammalian hair-cell development

Evening: **CONFERENCE DINNER**

Friday 18th September

V. Skin

- 9.00 **G. Lewin** (Berlin) Vertebrate sensory mechanotransduction: its development and regulation by neurotrophins
9.30 **M. Fitzgerald** (London) Development of pain reception in vertebrate skin
10.00 **E. Macagno** (New York) Cell interactions and the dynamics of sensory arbour development in the leech

10.30 *Tea/coffee*

VI. Taste Buds and Noses

- 11.00 **L. Barlow** (Denver) Development of taste buds
11.30 **F. Guillemot** (Strasbourg) Neural determination genes in development of the murine olfactory epithelium
12.00 **P. Mombaerts** (New York) Targeting olfaction

Lunch and end of meeting

Thanks to our sponsors:

The Wellcome Trust, Elsevier Trends Journals, Defeating Deafness, Zeneca, Smith Kline Beecham, Pfizers, Boehringer Mannheim, British Neuroscience Association, Hybaid & Calbiochem-Novabiochem.