### INSTITUTO JUAN MARCH DE ESTUDIOS E INVESTIGACIONES

Centre for International Meetings on Biology

Workshop on

#### PLANT MORPHOGENESIS

Programme

### SUNDAY, October 19th, 1997

20.00 Opening reception

## MONDAY, October 20th, 1997

9.00 Registration

#### Session 1: Molecular mechanisms that regulate pattern formation Chair: José Luis Micol

9.30	<b>David W. Meinke:</b> Genes with essential functions during embryogenesis in <i>Arabidopsis</i> .
10.10	Gerd Jürgens: Pattern formation and cytokinesis in the <i>Arabidopsis</i> embryo.
10.50	Coffee break
11.20	<b>Thomas Berleth:</b> Genetic analysis of root initiation and plant cell axialization in <i>Arabidopsis thaliana</i> .
12.00	Short presentations: <b>Pere Puigdomènech:</b> Characterization of genes involved in early embryogenesis in maize.
12.15	<b>Carmen Fenoll:</b> Development and pattern of stomata in Arabidopsis.
12.30	Discussion
13.00	Lunch

### Session 2: Specification of cell fate Chair: Sarah Hake

14.30	Liam Dolan: Organogenesis in the Arabidopsis root: the epidermis.
15.10	<b>John Schiefelbein</b> : Cell fate specification in the root epidermis of <i>Arabidopsis</i> .
15.50	Coffee break
16.20	<b>Hiroo Fukuda</b> : Direct transdifferentiation of mesophyll cells into xylem cells in culture.
17.00	<b>M. David Marks:</b> The role of <i>GL1</i> and other genes in <i>Arabidopsis</i> trichome development.
19.00	Open session: <b>Marc Van Montagu:</b> Can we and should we modulate Plant Growth and Development?

## TUESDAY, October 21st, 1997

### Session 3: Morphogenetics pathways and phase change Chair: Ton Bisseling

9.00	<b>Jan Traas:</b> Shoot apical meristem function in <i>Arabidopsis</i> : the cellular basis.
9.40	<b>Sarah Hake:</b> Meristem functions: the fine line between determinate and indeterminate fates.
10.20	Jane Langdale: Pattern formation and cellular differentiation in maize leaves.
11.00	Coffee break
11.30	José Luis Micol: A genetic approach to the dissection of leaf ontogeny in <i>Arabidopsis</i> .
12.10	<b>Scott Poethig:</b> Turning over a new leaf: the regulation of leaf identity in maize and <i>Arabidopsis</i> .
12.50	Short presentation: <b>Mieke Van Lijsebettens:</b> Genetic control of leaf lamina growth in Arabidopsis.

13:05	Lunch
14.15	Piano concert
15.00	<b>Marc Van Montagu:</b> <i>Arabidopsis</i> -pathogen interactions: from signalling to morphogenesis.
15.40	<b>Kevin Pyke:</b> A genetic analysis of plastid development in higher plants.
16.20	Coffee break
16.50	Dirk Inzé: Cell cycle control in Arabidopsis.
17.30	<b>Robert Williams:</b> Genetic control of apical and floral meristem structure in <i>Arabidopsis</i> .

# WENDESDAY, October 22<sup>nd</sup>, 1997

## Session 4: Cell to cell communication and differentiation Chair: Scott Poethig

9.00	<b>Tsvi Sachs:</b> Cell polarization: a key process for patterned differentiation and plant organization.
9.40	<b>Ton Bisseling:</b> The role of lipochitooligosaccharides in legume nodulation.
10.20	Short presentation: J.A.H. Murray: Retinoblastoma proteins and cell differentiation in maize.
10.35	Coffee break
11.05	<b>Thomas Altmann:</b> Brassinosteroids, essential regulators of plan growth and development.
11.45	<b>Chris van der Schoot:</b> Symplasmic networking at the shoot apical meristem.
12.25	Short talk: <b>Renze Heidstra:</b> Cell signalling in <i>Arabidopsis</i> root development.
12.40	Concluding remarks. Chair: Marc Van Montagu.
13.00	Lunch

### **END OF WORKSHOP**