

# TEMTIA 2013

The 6<sup>th</sup> International  
EMT Meeting

Alicante, Spain  
November 13-16, 2013

## PROGRAMME



# Index

---

<b>Presentation</b> .....	<b>page 3</b>
<b>General Information</b> .....	<b>page 4</b>
<b>Committees</b> .....	<b>page 4</b>
<b>Faculty</b> .....	<b>page 5</b>
<b>Main Themes</b> .....	<b>page 5</b>
<b>Programme</b> .....	<b>page 6</b>
<b>Sponsors</b> .....	<b>page 12</b>
<b>Profiles</b> .....	<b>page 13</b>
<b>Advertisements</b> .....	<b>page 15</b>
<b>Acknowledgements</b> .....	<b>page 16</b>
<b>Organizer &amp; Congress Secretariat</b> .....	<b>page 17</b>

## PRESENTATION

The Epithelial-Mesenchymal Transition (EMT) is a basic cellular process by which epithelial cells change phenotype and become invasive cells within a three dimensional matrix. This process is used by the embryo to generate different tissues, by cancer cells in the first step towards metastasis and it is also activated during the development of organ fibrosis and wound healing. This meeting will be an excellent opportunity to discover the latest experimental approaches and future directions in EMT in health and disease as well as to discuss new data and ideas. The program includes world leaders in different fields and a prominent place is also reserved for poster and oral sessions selected from the abstracts.

The program will highlight recent breakthroughs in some of the hot topics in Epithelial-Mesenchymal transition in health and disease.

- 1 - Cell/Molecular Biology of EMT
- 2 - Developmental EMT
- 3 - Non-transcriptional regulation of EMT
- 4 - Organ fibrosis and wound repair
- 5 - Cancer and EMT
- 6 - Cancer stem cells and reprogramming
- 7 - Systems and mathematical modelling
- 8 - Therapies and drug discovery

**Wellcome to Alicante!**



**Prof. Ángela Nieto**

*TEMTIA President*

On behalf of the organizing Committees

## GENERAL INFORMATION

### Venue

#### Hotel Meliá Alicante

Address: Plaza del Puerto, 3, 03001 Alicante

**Room Europa:** Plenary Session - Ground floor

**Room Alicante:** Posters Session - Mezzanine

**La Plaza:** Coffee breaks - Mezzanine (in front of Room Alicante)

### Exhibitor Space

Space for exhibitors will be located next to the plenary room Europa:

**13<sup>th</sup> November:** from 12:00 h to 19:45 h

**14<sup>th</sup> November:** from 08:30 h to 20:30 h

**15<sup>th</sup> November:** from 08:30 h to 19:30 h

**16<sup>th</sup> November:** from 08:30 h to 12:30 h

### Certificate of Attendance

The certificates of attendance will be sent by email after the congress.

### Congress Dinner Tickets

Along with the documentation provided in the technical secretariat participants will receive a ticket for the conference dinner, upon confirmation of attendance by email before the Congress.

---

## COMMITTEES

### International Organizing Committee:

**M. Angela NIETO** – Instituto de Neurociencias (CSIC-UMH), Spain

**Thomas BRABLETZ** – Freiburg Medical School, Germany

**Raghu KALLURI** - Harvard Medical School, USA

**Yeesim KHEW-GOODALL** – Centre for Cancer Biology, SA Pathology, Australia

**Don NEWGREEN** – MCRI, Melbourne, Australia

**Raymond RUNYAN** – University of Arizona, USA

**Pierre SAVAGNER** – Institut de Recherche en Cancérologie de Montpellier, France

**Guojun SHENG** – RIKEN Center for Development Biology, Japan

**Jean Paul THIERY** – A\*STAR - Institute of Molecular and Cell Biology, Singapore

**Erik THOMPSON** – University of Melbourne and St. Vincent's Institute, Australia

### Local Organizing Committee:

**M. Ángela NIETO** - Instituto de Neurociencias (CSIC-UMH), Alicante

**Amparo CANO** - Universidad Autónoma Madrid

**Antonio GARCÍA DE HERREROS** - Institute for Medical Research and Hospital del Mar, Barcelona

**José Luis DE LA POMPA** - National Center for Cardiovascular Diseases, Madrid

## FACULTY

### Opening: The EMBO Lecture and Betty Hay Oration

**Robert Weinberg** (Whitehead Inst Cancer Res., Cambridge, USA)

### Speakers

**Eduard Batlle** (IRB, Barcelona, Spain)

**Jordi Casanova** (IBMB(CSIC)/IRBB, Barcelona, Spain)

**Mark Chaplain** (University of Dundee, UK)

**Hal Chapman** (UCSF, USA)

**Maria Dominguez** (Inst. Neurociencias CSIC-UMH, Alicante, Spain)

**Andrew P. Feinberg** (John Hopkins University, School Medicine, Baltimore, USA)

**Darren Gilmour** (EMBL, Heidelberg, Germany)

**Piyush B. Gupta** (Whitehead Institute, Cambridge, USA)

**John Haley** (OSI/Astellas, USA)

**Josef Käs** (University of Leipzig, Germany)

**Maria Leptin** (EMBL, Germany)

**Gregory D. Longmore** (The BRIGHT Institute, St. Louis, USA)

**David Lyden** (Cornell University, New York, USA)

**Fernando Martin-Belmonte** (CBMSO, Madrid, Spain)

**Damian Medici** (Brown University, Providence, USA)

**Alberto Muñoz** (IIB CSIC-UAM, Madrid, Spain)

**Luis Parada** (University of Texas Southwestern MC, USA)

**Duanqing Pei** (Chinese Academy of Sciences, Guangzhou, China)

**Stefano Piccolo** (University of Padua, Italy)

**Eric Sahai** (CRUK London Research Institute, UK)

**Ben Z. Stanger** (University of Pennsylvania, Philadelphia, USA)

**Stephen Weiss** (University of Michigan, Ann Arbor, USA)

**Jeffrey L. Wrana** (Mount Sinai Hospital, Toronto, Canada)

**Kuo-Juey Wu** (National Yang-Ming University, Taiwan)

**Jig Yang** (UCSD, San Diego, USA)

**Binhua P. Zhou** (University of Kentucky Markey Cancer Center, USA)

### The EMBO Young Investigator Lecture

**Cedric Blanpain** (Universite Libre de Bruxelles, Belgium)

### The ISDB-MOD Lecture

**Mina Bissell** (Lawrence Berkeley Laboratory, Berkeley, USA)

---

## MAIN THEMES

The 4 day meeting expects to attract more than 200 delegates. This crucial and timely meeting will be participated by with researchers, students, clinicians, institute/department heads, decision makers, scientific managers and educators.

**TEMTIA-VI will be held over 10 sessions, with broad discussion of 7 main themes:**

- Cancer and EMT
- Developmental EMT
- Organ Fibrosis and wound repair
- Cell/Molecular Biology of EMT
- Systems and Mathematical Modeling of EMT
- Therapies, Drug discovery and EMT
- Cancer Stem cells and EMT

## PROGRAMME

---

Wednesday, 13<sup>th</sup> November

12:00-14:00 **Registration**

14:15-14:30 **Inauguration / Welcome address**  
M Ángela Nieto and local committee

14:30-15:30 **The EMBO lecture and Betty Hay oration**  
*Chair: Angela Nieto*

- **Robert Weinberg (Whitehead Inst Cancer Res., Cambridge, USA). EMBO member**  
The Multi-Faceted EMT Program

15:30-17:40 **Symposium I. Cell / Molecular Biology of EMT**  
*Chair: Ray Runyan*

- **Stephen Weiss (University of Michigan, Ann Arbor, USA)**  
Beyond EMT: Insights from Snail1 Conditional Knockout Mice
- **Eric Sahai (CRUK London Research Institute, UK)**  
Intravital imaging of metastasis
- **Fernando Martin-Belmonte (CBMSO, Madrid, Spain)**  
New molecular mechanism involved in epithelialization during lumen morphogenesis in kidney cells

**Short talks:**

**O.35: TGF $\beta$  and MYC: the crossroads of cytotostasis and invasion**  
*D Radisky, M Cichon, M Moruzzi. Mayo Clinic*

**O.128: The Twist box domain is required for TWIST1-induced metastasis of prostate cancer cells**  
*P Tran, R Gajula, S Chettiar, R Williams, S Thiyagarajan, K Aziz, N Gandhi, A Wild, Y Kato, E Fertig, C Rudin, V Raman, S An. Johns Hopkins Medicine, Johns Hopkins University*

17: 45-19:45 **Poster session** (drinks and snacks)

Thursday, 14<sup>th</sup> November

**8:30-10:40**    **Symposium II. Developmental EMT**  
*Chair: Goujun Sheng*

- **Maria Leptin (EMBO, Germany)**  
Mesodermal EMT and germ layer formation in *Drosophila* can occur without an E-to-N-cadherin switch
- **Jordi Casanova (IBMB (CSIC) / IRBB, Barcelona, Spain)**  
EMT and collective cell migration
- **Darren Gilmour (EMBL, Heidelberg, Germany)**  
Self-generated directionality and tissue organisation during collective migration

**Short talks:**

O. 85: Zeb1 regulates E-cadherin and Epcam expression to control cell behaviour in early development and cancer  
*C Vannier, K Mock, T Brabletz, W Driever. Dept. of Visceral Surgery, University Medical Center Freiburg*

O.121: EMT in neural crest: new partners for an old process  
*E Martí, MA Rabadán. Instituto de Biología Molecular de Barcelona, CSIC*

**10:40-11:00**    **Coffee break**

**11:00-13:00**    **Symposium III. Non-transcriptional regulation of EMT I**  
*Chair: Yeesim Kew-Goodall*

- **Andrew P Feinberg (John Hopkins University, School Medicine, Baltimore, USA)**  
Epigenetic Basis of Cellular Reprogramming
- **Kuo-Juey Wu (National Yang-Ming University, Taiwan)**  
Epigenetic regulation of hypoxia-induced epithelial-mesenchymal transition

**Short talks:**

O.144: Identification of a double-negative feedback loop which regulates epithelial-mesenchymal transition and metastasis  
*L Shi, R Jackstadt, H Siemens, H Li, T Kirchner, H Hermeking. Ludwig-Maximilians-University München*

O.5: Regulation of Heterochromatin Transcription by Snail1/LOXL2 during Epithelial to Mesenchymal Transition  
*S Peiró. Fundacio IMIM*

O.138: Novel Snail-regulated miRNAs coordinate vasculogenic mimicry and EMT in breast cancer  
*E Langer, M Capecchi, R Sears. Oregon Health & Science University*

**13:00-14:00**    **Lunch time** (many local restaurants and snack bars around)

**14:00-16:10 Symposium IV. Non-transcriptional regulation of EMT II**

**Chair: Aristidis Moustakas**

- **Maria Dominguez (Inst. Neurociencias CSIC-UMH, Alicante, Spain)**  
Deconstructing tumour metastasis in Drosophila
- **Gregory D Longmore (The BRIGHT Institute, St. Louis, USA)**  
Post-transcriptional Regulation of Snail1 in Tumor Metastasis
- **Binhua P. Zhou (University of Kentucky Markey Cancer Center, USA)**  
Epithelial-mesenchymal transition in Basal-like Breast Cancer

**Short talks:**

**O.29: eEF1A mediates the nuclear export of SNAG-containing proteins via the Exportin5-aatRNA complex**  
*JM Mingot, S Vega, A Cano, F Portillo, MA Nieto. Instituto de Neurociencias de Alicante, CSIC-UMH*

**O.41: Nuclear ubiquitination by FBXL5 modulates Snail1 DNA binding and stability upon gamma-irradiation**  
*VM Díaz Cortés, R Viñas-Castells, E Robles-Lanuza, A Frías, K Zhang, G Longmore, AG de Herreros. Institut Hospital del Mar d Investigacions Mèdiques, Universitat Pompeu Fabra, Parc de Recerca Biomèdica de Barcelona*

**16:10-16:30 Coffee break**

**16:30-18:40 Symposium V. Organ Fibrosis and wound repair**

**Chair: Raghu Kalluri**

- **Damian Medici (Brown University, Providence, USA)**  
Endothelial-Mesenchymal Transition as a Novel Mechanism for Tissue Regeneration
- **Harold Chapman (UCSF, USA)**  
Lung epithelial stem cells activate a mesenchymal program to regenerate lung tissue after major injury
- **Cedric Blanpain (Université Libre de Bruxelles, Belgium)**  
**The EMBO Young Investigator Lecture**  
Epithelial-mesenchymal transition controls tumor heterogeneity and stemness in skin squamous cell carcinoma

**Short talks:**

**O.50: Caveolin-1 controls epithelial-mesenchymal transition and fibrosis in peritoneum through modulation of MEK-ERK1/2-Snail pathway**  
*R Strippoli, J Loureiro, I Benedicto, ML Pérez-Lozano, V Moreno, O Barreiro, T Pellinen, S Minguet, M Foronda, MT Osteso, M López Cabrera, MA del Pozo. Fundación CNIC Carlos III - Centro Nacional de Investigaciones Cardiovasculares*

**O.141: The Fragile X Protein binds mRNAs involved in cancer progression and modulates metastasis formation**  
*C Bagni, R Luca, M Averna, F Zalfa, M Vecchi, F Bianchi, G La Fata, G Neri, P Neven, GD Evans, P Carmeliet, M Mazzone. Center for Human Genetics, KUUniversity Leuven, Belgium; VIB Center for the Biology of Disease, Leuven, Belgium; Department of Biomedicine and Prevention, University "Tor Vergata," Rome, Italy*

**18:40-20:30 Poster session** (drinks and snacks)

**19:30-20:30 TEMTIA Assembly**

Friday, 15<sup>th</sup> November

8:30-10:40 **Symposium VI. Cancer and EMT I**  
**Chair: Antonio García de Herreros**

- **Ben Z Stanger (University of Pennsylvania, Philadelphia, USA)**  
Using a lineage-traced mouse model to study EMT in vivo
- **Alberto Muñoz (IIB CSIC-UAM, Madrid, Spain)**  
Vitamin D represses EMT in human colon cancer cells
- **Stefano Piccolo (University of Padua, Italy)**  
YAP and TAZ as effectors of mechanotransduction and EMT-induced stemness

Short talks:

O.51: A switch in the expression of embryonic EMT-inducers drives the development of malignant melanoma  
*E Tulchinsky, J Caramel, E Papadogeorgakis, L Hill, G Browne, G Richard, A Wierinckx, G Saldanha, J Lachuer, P Hutchinson, A Puisieux, H Pringle, S Ansieau. University of Leicester*

O.149: Identification of a ZEB2-ZEB1-MITF transcriptional network that controls melanogenesis and melanoma progression  
*G Berx, N Vandamme, Ö Akay, B De Craene, L Brochez, J van den Oord, W Gallagher, G Ghanem, L Larue, J Haigh, I Davidson, JC Marine, G Denecker. VIB & Ghent University*

10:40-11:00 **Coffee break**

11:00-13:00 **Symposium VII. Cancer and EMT II**  
**Chair: Rik Thompson**

- **Jing Yang (UCSD, San Diego, USA)**  
Spatiotemporal Regulation of Epithelial-Mesenchymal Plasticity in Carcinoma Metastasis
- **David Lyden (Cornel University, New York, USA)**  
Tumor-derived exosomes promote pre-metastatic niche formation and organotropism

Short talks:

O.9: Integrin-Liked Kinase (ILK) is a critical regulator of the Hippo/YAP signaling pathway and EMT  
*S Dedhar, S Dedhar, I Serrano. BC Cancer Research Centre*

O.132: Tgf- $\beta$ -induced epithelial-mesenchymal transition activates mammary tumor cells for lymphatic dissemination  
*MF Pang, AM Georgoudaki, V Tabor, K Hagikura, Y Jin, M Jansson, L Jakobsson, C Betsholtz, M Sund, MCI Karlsson, J Fuxe. Karolinska Institutet*

O.115: Understanding the contribution of different EMT-TFs to epithelial plasticity  
*G Moreno-Bueno, A Díaz-López, J Díaz, J Palacios, F Portillo, A Cano, Biochemistry department, Medicine faculty-IIB. UAM-CISC*

O.124: Epithelial Mesenchymal Plasticity is Associated with Intercellular Heterogeneity, Tumourigenicity and Tumour growth in the PMC42 H –  
*C Pinto, T Blick, Y Handoko, K Gould, K Simpson, I Haviv, M Waltham, E Thompson. St. Vincent s Institute of Medical Research*

13:00-14:00 **Lunch time** (many local restaurants and snack bars around)

**14:00-16:10 Symposium VIII. Cancer stem cells, reprogramming and EMT**  
**Chair: Thomas Brabletz**

- **Eduard Batlle (IRB, Barcelona, Spain)**  
Mechanisms of Metastasis by colorectal cancer stem cells
- **Duanqing Pei (Chinese Academy of Sciences, Guangzhou, China)**  
MET first and then EMT before that en route to pluripotency
- **Jeffrey L Wrana (Mount Sinai Hospital, Toronto, Canada)**  
Coordination of Polarity signaling in Cancer

**Short talks:**

**O.44: Slug/P-cadherin pathway controls mammary stem/progenitor cell growth dynamics and motility**  
*Y Idoux-Gillet, M Nassour, P Savagner. Institut de Recherche en Cancérologie de Montpellier*

**O.110: Phenotypic plasticity in mammary epithelial stem cells and breast cancer is regulated by Axl signalling**  
*C Tiron, F Pelissier, K Wnuk-Lipinska, I Stefansson, R Virtakoivu, M Miyano, T Sandal, D Micklem, V Fey, J Ivaska, L Akslen, M La Barge, J Lorens. University of Bergen*

**16:10-16:30 Coffee break**

**16:30-18:30 Symposium IX. Systems and Mathematical modelling of EMT**  
**Chair: Muhammad Zaman**

- **Josef Käs (University of Leipzig, Germany)**  
Keratins significantly contribute to cell stiffness and impact invasive behaviour
- **Mark Chaplain (University of Dundee, UK)**  
A Multiscale Computational Model of Cell Population Dynamics in Two-Dimensional In Silico Cultures

**Short talks:**

**O.75: EMT in epidermal cell migration: A multi-system analysis of epidermis, cells, proteins, RNA, miRNA and the maths behind it all**  
*K Manton, L Mohanty, B Hollier, R Dawson, L Wagner, K Treloar, B Binder, P Haridas, S McElwain, R Baker, Z Upton, D Leavesley, M Simpson. Queensland University of Technology*

**O.76: Regulatory networks through which miR-200 affects cell invasion and metastasis**  
*G Goodall, C Bracken, X Li, J Wright, M Anderson, D Lawrence, A Yap, Y Khew-Goodall. Centre for Cancer Biology, SA Pathology*

**O.21: Epigenetic control and feed-forward signaling loops connect HMGA2, Snail1 and Smad proteins in EMT and tumor cell invasiveness**  
*A Moustakas, L Caja, K Kahata, CH Heldin, K Savary, EJ Tan, S Thuault, K Tzavlaki. Uppsala University*

**18:30-19:30 Poster session** (drinks and snacks)

**20:15-22:00 Conference dinner**

Saturday, 16<sup>th</sup> November

8:30-10:40 **Symposium X. Therapies and Drug Discovery**  
**Chair: Jean Paul Thiery**

- **Luis Parada (University of Texas Southwestern MC, USA)**  
Mouse Models of Neural Tumors: Therapeutic Insights
- **Piyush B. Gupta (Whitehead Institute, Cambridge, USA)**  
Chemical-Genetics Identifies a Key Vulnerability of EMT cells
- **John Haley (OSI/Astellas, USA)**  
Mesenchymal-like cancer cell networks contributing to tumor progression and cell survival

**Short talks:**

O. 116: [Conective Tissue Growth Factor Regulates Epithelial-Mesenchymal Transition by Interacting with Epidermal Growth Factor Receptor](#)

*S Rayego-Mateos, J Morgado-Pascual, M Alique, C Lavozy, R Rodrigues-Diez, J Pato, G Kery, S Mas, J Egido, A Ortiz, M Ruiz-Ortega. IIS-Fundacion Jimenez Diaz Universidad Autónoma de Madrid*

O.105: [An EMT Spectrum defines an anoikis resistant and spheroidogenic Intermediate Mesenchymal state that is sensitive to E-cadherin res](#)

*Ry Huang, MK Wong, TZ Tan, KT Kuay, HC Ng, VY Chung, YS Chu, N Masumura, HC Lai, S Mori, J Low, MA Choolani, JP Thiery. National University of Singapore*

10:40-11:10 **Coffee break**

11:15-12:15 **The ISDB-MOD Lecture**  
**Chair: Amparo Cano**

- **Mina Bissell (Lawrence Berkeley Laboratory, Berkeley, USA)**  
At the end you should want to know what a cell can do rather what it does do

12:15-12:30 **Concluding remarks**  
**Chairs**

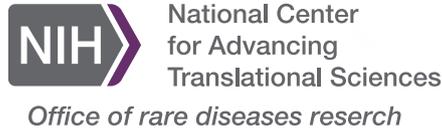
**Remarks: Angela Nieto**

**Prizes: Pierre Savagner**

**Next meeting: Rik Thompson**

## SPONSORS

### DIAMOND SPONSORS



"Funding for this conference was made possible (in part) by 1 R13 CA180363-01 from the National Cancer Institute. The views expressed in written conference materials or publications and by speakers and moderators do not necessarily reflect the official policies of the Department of Health and Human Services; nor does mention by trade names, commercial practices, or organizations imply endorsement by the U.S. Government."

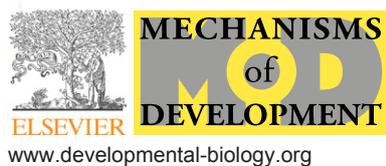
### GOLD SPONSORS



### SILVER SPONSORS



### BRONZE SPONSORS



## PROFILES

### CELL REGENERATION



## CELL REGENERATION

*Cell Regeneration* is an open access, peer-reviewed journal that publishes novel research articles as well as in depth reviews in modern biology, especially in the field of stem cell and regenerative biology, and regenerative medicine.

*Cell Regeneration* welcomes reports on novel discoveries, theories, methods, technologies and products in the field of cell and regenerative biology. *Cell Regeneration* provides an international forum for enhancing regenerative medicine research, strengthening the academic exchange between China and the rest of the world. *Cell Regeneration* is supported by the Guangzhou Institute of Biomedicine and Health, Chinese Academy of Sciences, China, which covers the cost of publication on behalf of authors.

### INTERNATIONAL SOCIETY OF DIFFERENTIATION



The purpose of the International Society of Differentiation is to encourage and develop research and communication in the fields of cell and developmental biology, molecular biology and oncology. The ISD promotes research in: Cancer, Morphogenesis, Stem Cells.

The ISD is committed to promoting true international interaction, encouraging and developing research and communication through meetings and the publication of the ISD official journal, *Differentiation*. Membership in the Society is open to researchers in these fields with a professional degree or its equivalent in experience and to students enrolled in a graduate program leading to an advanced degree.

### EMBO



EMBO is an organization of almost 1600 leading researchers that promotes excellence in the life sciences. The major goals of the organization are to support talented researchers at all stages of their careers, stimulate the exchange of scientific information, and help build a European research environment where scientists can achieve their best work.

EMBO helps young scientists to advance their research, promote their international reputations and ensure their mobility. Courses, workshops, conferences and scientific journals disseminate the latest research and offer training in techniques to maintain high standards of excellence in research practice. EMBO helps to shape science and research policy by seeking input and feedback from our community and by following closely the trends in science in Europe.

For more information see: [www.embo.org](http://www.embo.org)

### UNIVERSIDAD AUTONOMA DE MADRID



The Universidad Autónoma de Madrid (UAM) is a public university offering a large variety of undergraduate and postgraduate degrees, founded in 1968. The UAM has since then achieved and outstanding international reputation for the high quality of its teaching and research, and is generally recognized as one of the best Spanish universities in both national and international rankings. The UAM is a modern institution characterized by a strong social commitment and by a very active participation in society.

The UAM has seven faculties (Science, Economics and Business Studies, Law, Arts, Medicine, Psychology, Education) and an Engineering School for Computer Science and Telecommunications, offering a wide range of programs in different scientific and technical fields, and in humanities.

The UAM is a university which has a distinguished reputation in the field of research. Since its founding, the support and development of high quality research has been one of the most important objectives of the UAM, and this endeavor has been rewarded with national and international recognition. These achievements have been attained thanks to its highly-valued research teams and research institutes, as well as to the existence of specialized experimental equipment and infrastructure.

---

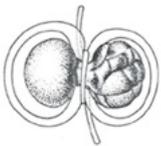
## AMERICAN ASSOCIATION OF ANATOMISTS



The American Association of Anatomists (AAA) serves as the gateway for conveying the relevance of biological structure as it relates to function from molecules to organisms, and the role of anatomy in team-based, interdisciplinary science, healthcare, and education.

---

## SEBD



**SEBD**

The Spanish Society of Developmental Biology.

The aim of the SEBD is to promote research in Developmental Biology in Spain and to foster interaction between the vibrant Spanish Community of Developmental Biologists and favour interactions with other International Developmental Biology Societies. In this aspect we are members of the ISDB and have promoted links with the Portuguese, British, US and French Societies with which we have organized joint meetings in the past.

The SEBD organizes a meeting every other year with reduced registration fees for SEBD members. The next X meeting of the Spanish Society for development Biology will be held in Madrid on October 2014. *More information at [www.sebd2014.com](http://www.sebd2014.com)*

---

## THE COMPANY OF BIOLOGISTS



The Company of Biologists is a not-for-profit publisher and UK charity. Established in 1925, The Company aims to promote research and study across all branches of biology. The Company publishes three internationally renowned, established journals: Development, Journal of Cell Science and The Journal of Experimental Biology, as well as two newer Open Access journals: Disease Models & Mechanisms (DMM) and Biology

Open (BiO). The Company of Biologists provides grants and sponsorship to support innovation in all aspects of biological research and also runs a series of progressive, fully funded, scientific workshops.

---

## ISDB



The International Society of Developmental Biologists (ISDB) is a non-profit scientific association which has as its aim the promotion of the study of developmental biology. To this effect, the ISDB also organises and supports scientific meetings and workshops. Formerly known as the International Institute of Embryology (IIE), the ISDB was renamed in September 1968.

---

## MECHANISMS OF DEVELOPMENT



Mechanisms of Development is the Official Journal of the The International Society of Developmental Biologists which supports the world-wide community of developmental biology.

---

## DEVELOPMENTAL DYNAMICS



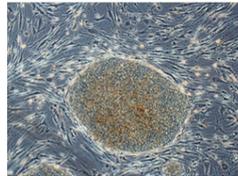
Developmental Dynamics provides an international forum for communication among biologists who study the progressive and dynamic emergence of form and function during embryonic development and the developmental basis of human disease. We seek manuscripts presenting work done at all levels of biological organization, ranging from the molecular to the organismal, using both animal and plant model systems.

**Open access!**



Publish your next paper on

**CELL REGENERATION**



Welcome articles in the field of stem cell, regenerative biology, and regenerative medicine

<http://www.cellregenerationjournal.com/>



Cell Regeneration is supported by the Guangzhou Institute of Biomedicine and Health, Chinese Academy of Sciences, China, which covers the cost of publication on behalf of authors.

THE COMPANY OF

# Biologists

The Company of Biologists is a UK based charity and not-for-profit publisher run by biologists for biologists. The Company aims to promote research and study across all branches of biology through the publication of its five journals.

**Development**  
Advances in developmental biology and stem cells [dev.biologists.org](http://dev.biologists.org)

**Journal of Cell Science**  
The science of cells [jcs.biologists.org](http://jcs.biologists.org)

**The Journal of Experimental Biology**  
At the forefront of comparative physiology and integrative biology [jeb.biologists.org](http://jeb.biologists.org)

**OPEN ACCESS**

**Disease Models & Mechanisms**  
Basic research with translational impact [dmm.biologists.org](http://dmm.biologists.org)

**Biology Open**  
Facilitating rapid peer review for accessible research [bio.biologists.org](http://bio.biologists.org)

In addition to publishing, The Company makes an important contribution to the scientific community, providing grants, travelling fellowships and sponsorship to noteworthy scientists, meetings, societies and collaborative projects around the world. The Company also runs a series of transdisciplinary workshops.

For subscriptions and consortia sales email [sales@biologists.com](mailto:sales@biologists.com)  
 Recommend a subscription by completing our library recommendation form <http://biologists.com/downloads/Library.pdf>

For more information please visit our website [biologists.com](http://biologists.com)

Development
Journal of Cell Science
The Journal of Experimental Biology

DMM Disease Models & Mechanisms
Biology Open

## ACKNOWLEDGEMENTS

Special thanks to the Instituto de Neurociencias in Alicante:



And in particular to Stuart Ingham for his support  
in designing the conference image

## ORGANIZER

### TEMTIA

The EMT International Association

<http://www.mtci.com.au/TEMTIA/TEMT-Assn.html>

## CONGRESS SECRETARIAT



C/ Lull, 321 - 329 Edificio CINC,  
Barcelona 08019 -CIF B85376630  
[t] (+34) 93 366 80 93 / 902 095 777  
[f] (+34) 902 517 841  
[emtmeeting2013@amexbarcelo.com](mailto:emtmeeting2013@amexbarcelo.com)