

# Current trends in Biomedicine

Mechanisms of Organ Regeneration in Model Systems

2009

## Workshops

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**i** Universidad Internacional de Andalucía

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### Scope

One of the major trends in the biomedical sciences over the last decade is the study of stem cells as a potential agent for therapeutic intervention through tissue regeneration or replacement. While enthusiasm for the potential of stem cell therapies is well justified, our knowledge about the signals and microenvironments required to properly differentiate stem cells into useful tissues (instead of harmful teratomas) is still severely limited. In order to leverage the full potential of embryonic stem cells and iPS cells, it is critical for us to deepen our understanding of the natural biological phenomena involved in repair and regeneration.

Throughout the animal kingdom, there are numerous examples of organisms with remarkable abilities for self-renewal of cell populations, repair of damaged tissues, or in extreme cases, complete regeneration of resected organs or amputated limbs. Many of these organisms have become important research models to study various aspects of regeneration, and they have the potential to provide us with essential insights into how stem and progenitor cells are controlled in vivo to repair damage.

By bringing researchers together with a wide variety of interests and approaches relating to tissue regeneration, it will provide for an opportunity for new and exciting interactions directly relevant to the very important field of regenerative medicine.

### Format of the Workshop

The workshop will bring together 17 speakers and a maximum of 50 participants (including speakers). The scientific programme will start in the morning of Monday, October 5<sup>th</sup>, and will end around noon on Wednesday, October 7<sup>th</sup>. Ample time for informal discussion will be reserved. Participants will be invited to present a poster.

### Venue of the Workshop

The workshop will be held in Baeza, at the "Sede Antonio Machado", a XVII century building turned into a Conference Centre of the Universidad Internacional de Andalucía (UNIA). This Seat includes a recently restored residence, where participants will be accommodated. Baeza is a World Historic Heritage town, renowned for its Renaissance and Gothic buildings.

### Organized by:

**Shawn M. Burgess.** National Human Genome Research Institute, NIH. Bethesda, USA.

**Hernán López-Schier.** Centre de Regulació Genòmica (CRG). Barcelona, Spain.

**Kenneth D. Poss.** Duke University Medical Center. Durham, USA.

### Speakers

**Miguel L. Allende.** Center for Genomics of the Cell, Facultad de Ciencias, Universidad de Chile. Santiago, Chile.

**Michael Brand.** Biotechnology Center and Center for Regenerative Therapies, University of Technology Dresden. Dresden, Germany.

**Brigitte Galliot.** Department of Zoology and Animal Biology, University of Geneva. Geneva, Switzerland.

**Acaimo González-Reyes.** Centro Andaluz de Biología del Desarrollo (CABD), CSIC-Universidad Pablo de Olavide. Sevilla, Spain

**Matthias Hebrok.** Diabetes Center, Department of Medicine, University of California, San Francisco. San Francisco, CA, USA.

**Klaus H. Kaestner.** Department of Genetics, Institute for Diabetes, Obesity, and Metabolism, University of Pennsylvania School of Medicine. Philadelphia, PA, USA.

**Michael Levin.** Biology Department, Center for Regenerative and Developmental Biology, Tufts University. Boston, MA, USA.

**Michael Lovett.** Department of Genetics, Washington University School of Medicine. St. Louis, MO, USA.

**Randall T. Moon.** Howard Hughes Medical Institute, Department of Pharmacology, and Institute for Stem Cell and Regenerative Medicine, University of Washington School of Medicine. Seattle, WA, USA.

**Phillip A. Newmark.** Howard Hughes Medical Institute, Department of Cell and Developmental Biology, University of Illinois at Urbana-Champaign. Urbana, IL, USA.

**Kenneth D. Poss.** Department of Cell Biology, Duke University Medical Center. Durham, NC, USA.

**Emili Saló.** Department of Genetics and Institute of Biomedicine of the University of Barcelona (IBUB). Barcelona, Spain.

**James Sharpe.** ICREA and EMBL-CRG Systems Biology Program, Centre de Regulació Genòmica. Barcelona, Spain.

**Didier Y.R. Stainier.** Department of Biochemistry and Biophysics, Programs in Developmental Biology, Genetics, and Human Genetics and the Liver Center, University of California, San Francisco. San Francisco, CA, USA.

**Shahragim Tajbakhsh.** Institut Pasteur, Stem Cells & Development, CNRS, Department of Developmental Biology. Paris, France.

**Elly M. Tanaka.** Center for Regenerative Therapies, Max Planck Institute for Molecular Cell Biology and Genetics. Dresden, Germany.

**Amy J. Wagers.** Section on Developmental and Stem Cell Biology, Joslin Diabetes Center and Harvard Stem Cell Institute. Boston, MA, USA.

**Baeza, Spain  
5<sup>th</sup>-7<sup>th</sup> October 2009**

**Deadline:**  
24<sup>th</sup> July 2009

**Venue:**  
Sede Antonio Machado  
Universidad Internacional de Andalucía  
Palacio de Jabalquinto  
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**Workshop coordinator:**  
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**More information and application:**  
<http://www.unia.es/biomedicine>