



University of Pavia



Department of
Drug Sciences



Centre for Health
Technologies

PhD School in
Chemical and Pharmaceutical Sciences

WORKSHOP

***TISSUE REPAIR:
FROM BIOCHEMICAL MECHANISMS
TO FORMULATION APPROACHES***

March 10th 2016

**Aula Volta
Strada Nuova 65, Pavia**

REGISTRATION

Participation is free. For organization purposes, as the participation number is limited, participants are requested to register within March 4th by filling and sending the following information to:

workshoptissuerepair@gmail.com

SURNAME _____

NAME _____

COMPANY/ORGANIZATION _____

ADDRESS _____

CITY _____

PHONE _____

e-mail _____

Registrations will be accepted according to receiving order.

All participants will receive a certificate of attendance.

Supported by:



BiomedDevice

Aim of the Workshop

The cellular and molecular mechanisms underlying tissue repair and failure to heal are still poorly understood, and current therapies are limited.

The aim of the workshop is to highlight emerging concepts and innovative perspectives in tissue repair, from the biochemical mechanisms to the formulation approaches to be used for the rational treatment of pathologies involving impaired tissue repair.

The Department of Drug Sciences (University of Pavia) has a prominent expertise and a research activity focused on this topic. This event is inserted in this frame.

The workshop is intended for researchers from pharmaceutical and healthcare companies as well as from academia and research organizations.

Organizing Committee

Franca Ferrari (Univ. Pavia)
Giuseppina Sandri (Univ. Pavia)
Maria Cristina Bonferoni (Univ. Pavia)
Silvia Rossi (Univ. Pavia)
Gabriella Massolini (Univ. Pavia)

Scientific Committee

Maria Cristina Bonferoni (Univ. Pavia)
Giuseppina Sandri (Univ. Pavia)
Silvia Rossi (Univ. Pavia)
Ida Genta (Univ. Pavia)
Carla M. Caramella (Univ. Pavia)
Franca Ferrari (Univ. Pavia)

Program

9.00-9.20 Registration

9.20-9.40 Introduction: **Fabio Rugge** (Rector of the University of Pavia) and **Gabriella Massolini** (Head of the Department of Drug Sciences)

Morning Sessions:

Chairpersons: **Carla M. Caramella**
Giuseppina Sandri

9.40-10.20 Extracellular matrix derived signalling in cardiac development, regeneration and repair, Lauren Black, Dept. of Biomedical Engineering, Tuft University, Medford, MA, USA

10.20-10.50 Extracellular matrix and hemopoiesis in the bone marrow environment, Alessandra Balduini, Dept. of Molecular Medicine, University of Pavia

10.50-11.30 Coffee break

Chairpersons: **Franca Ferrari**
Silvia Rossi

11.30-12.00 The ELAV proteins: a new target for neuroregeneration?, Alessia Pascale, Dept. of Drug Sciences, University of Pavia

12.00-12.30 Sigma 1 receptor agonists to promote neuroplasticity. A medicinal chemistry perspective, Simona Collina, Dept. of Drug Sciences, University of Pavia

12.30-13.00 From platelet derived growth factors to the paracrine action of mononuclear cells, Cesare Perotti, Immunohaematology and Transfusion Service, Apheresis and Cell Therapy Unit, IRCCS Policlinico San Matteo, Pavia

13.00-14.30 Lunch

Afternoon Session:

Chairpersons: **Maria Cristina Bonferoni**
Ida Genta

14.30-15.10 Translation from animals to humans, Magnus Agren, Department of Surgery, Bispebjerg Hospital, Copenhagen, DK

15.10-15.40 Growth factor immobilization for tissue repair: synthetic strategies and characterization, Teodora Bavaro, Caterina Temporini, Dept. of Drug Sciences, University of Pavia

15.40-16.10 Bioactive formulations intended for skin repair, Giuseppina Sandri, Dept. of Drug Sciences, University of Pavia

16.10-16.40 Bone regeneration: strategies for local antibiotic delivery to bone, Bice Conti, Dept. of Drug Sciences, University of Pavia

16.40-17.00 Final remarks and Conclusions