



University of Copenhagen and  
Danish Pharmaceutical Society  
The Biopharmaceutical Section

# Regenerative Medicine

## Restoring tissue function by stem cell transplantation or by stimulation *in vivo*.

**Lecture by Professor Carlo Ventura**  
**University of Bologna**

January 16, 2019, 15.00-16.30

Benzon Auditorium

Department of Pharmacy, University of Copenhagen  
Universitetsparken 2, Copenhagen

Regenerative medicine aims at restoring damaged tissue by means of tissue engineering and molecular biology. It is a rapidly growing field with the potential of providing future treatment of various chronic conditions such as heart disease, diabetes and neurodegenerative diseases.

Stem cells are key tools in regenerative medicine. They possess the ability to differentiate into somatic cells and may be used for transplantation to damaged tissue. Stem cells may be obtained from the patient's own tissue, such as bone marrow or fat tissue or from other sources. Current issues with stem cell therapy include harvesting of a sufficient number of viable cells for obtaining clinically meaningful effects, and directing the differentiation of stem cells into the desired somatic cells. Classical methods for manipulation of stem cells use a variety of chemical agents for stimulation and differentiation. More recently, non-chemical stimulation has shown encouraging results and such non-chemical stimulation may even be developed into a direct treatment of the patient without the need for stem cell transplantation.

Professor Carlo Ventura will review the current state and future promise of regenerative medicine with focus on innovative methods for stimulating and directing stem cell differentiation. After the lecture, refreshments will be served with opportunities to network and discuss with the lecturer.

**Carlo Ventura (M.D., PhD)**, a frontier in his field, is full Professor of Molecular Biology, Department of Experimental, Diagnostic and Specialty Medicine (DIMES), School of Medicine, University of Bologna, Italy.

He is Chief of the National Laboratory of Molecular Biology and Stem Cell Engineering - Eldor Lab, Istituto Nazionale di Biostrutture e Biosistemi and Scientific Director of the GUNA ATTRE (Advanced Therapies and Tissue REgeneration) Innovation Accelerator in Bologna.

**Registration no later than January 14<sup>th</sup> at [www.farmaceutisk-selskab.dk](http://www.farmaceutisk-selskab.dk)  
No entry fee, non-members are also welcome to participate in the meeting.**