

# Lecture Stem Cell Biology



**SS, Mon 17.30 - 19.00; Room EG. 612 LIFE & BRAIN, weekly**

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<http://www.stemcells.uni-bonn.de>

## Learning objective

In the course of this lecture, the students become familiar with the properties of stem cells as well as the features necessary for their characterization. Contents of the lectures include somatic stem cells in regenerative tissues and their differentiation potential, adult neurogenesis, embryonic stem cells as well as new methods for obtaining patient-specific (autologous) pluripotent stem cells (induced pluripotent stem cells). In addition, an overview of stem cell-based therapeutic approaches and their limitations is given.

## What is the methodological-didactic goal of the course?

The students get an overview of the applied and biomedically relevant stem cell research.