Mathematisch – Naturwissenschaftliche Fakultät

der Universität zu Köln - Der Dekan -

Einladung

zu der am Freitag, den 28.11.2003,16.00 Uhr im großen Hörsaal der Genetik, Institut für Genetik, Weyertal 121, 50931 Köln,

stattfindenden öffentlichen

Einführungsvorlesung

zur Erlangung der venia legendi im Fach Genetik

von

Herrn Dr. Thomas Klein über das Thema The biology and plasticity of adult stem cells

Abstract:

During recent years, stem cells have been isolated from a variety of adult tissues, where no such cells have been thought to exist. These cells have been shown to be required for the normal maintenance of the tissue and also for the replacement of cells after injury. Furthermore, adult stem cells seem to be able to cross tissue boundaries and contribute to the replacement of cells of other tissues. This fascinating property is called plasticity and led to the proposal of a new theory about the live of adult stem cells.

The lecture will describe the biology of adult stem cells and outline the difference to embryonic stem cells. It will then go on to describe some examples of plasticity of adult stem cells and a new theory of one adult stem cells, arising as a result from this observations. Furthermore, it will continue to described one example of how adult stem cells contribute to the regeneration of a tissue of different origin.

A. Freimuth Dekan