

**40<sup>th</sup> Stem Cell Club meeting**

# ***Pluripotency of adult stem cells***

*(Organised by the Stem Cells Research Singapore Website Committee  
<http://www.stemcell.edu.sg>)*

Date: September, 29th, 2008 (Monday)

Time: 5:30 pm

Venue: Aspiration, Level 2M, Matrix

Host: Gerald Udolph, IMB

## **Time Title**

**5:30-6:15 The biomedical potential of unrestricted somatic stem cells from human cord blood**

**6:15-7:00 Generation of pluripotent stem cells from adult human testis**

**7:00 - Wine and Cheese  
(at Invitrogen facilities, 4<sup>th</sup> floor Chromos)**

## **Speaker**

***Peter Wernet***  
*University Hospital  
Düsseldorf, Germany*

***Thomas Skutella***  
*University Tübingen,,  
Germany*

# Generation of pluripotent stem cells from adult human testis

**Thomas Skutella**, Institute of Anatomy, Department of Experimental Embryology, Section of Tissue Engineering, Tübingen, Germany; Centre for Regenerative Biology and Medicine (ZRM), Tübingen, Germany

We were able to establish pluripotent human adult germline stem cell (haGSC) cultures. When grown under conditions used to induce the differentiation of human embryonic stem (hES) cells, they converted and differentiated into various types of somatic cells and produced teratomas after inoculation into nude mice. After transplantation, predifferentiated haGSCs generated insulin-positive cells when injected into the adult mouse kidney. Cellular and molecular characterization of haGSCs revealed many similarities to hES cells. We conclude that the generation of haGSCs from testicular biopsies may provide simple and non-controversial access to individual cell-based therapy without the ethical and immunological problems associated with hES cells.

# **The biomedical potential of unrestricted somatic stem cells from human cord blood**

**Peter Wernet**, University Hospital Düsseldorf, Germany

**Abstract**

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