

## **Mesenchymal stem cells -biology and clinical potential**

### **Schedule Doctoral Course No 2652, 2 hp, 18-22/3 2013**

*A doctoral course co-organized by Karolinska Institutet Doctoral Program in Regenerative Medicine, Lund Research School in Stem Cell Biology and Swedish Network for Translational Mesenchymal Stem Cell Biology.*

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#### **Monday 18<sup>th</sup> of March**

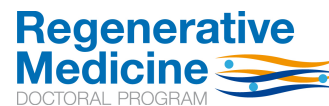
11.30 – 12.30	Welcome and Introduction Student presentations	Cecilia Götherström Hong Qian
12.30 – 13.30	<i>LUNCH</i>	
13.30 – 14.30	Workshop: Stem Cells –what is it?	Cecilia Götherström Hong Qian
14.30 – 15.00	<i>COFFEE</i>	
15.00 – 16.00	Workshop: Stem Cells –what is it? cont.	Cecilia Götherström Hong Qian
16.00 – 17.00	Transplantation immunology & tolerance	Petter Höglund

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#### **Tuesday 19<sup>th</sup> of March**

09.00 – 10.00	Stem cells in the pancreas	Matthias Löhr
10.00 – 10.30	<i>COFFEE</i>	
10.30 – 11.30	Placental stem cell treatment of liver disease	Stephen Strom
11.30 – 12.30	Studies of the capacity of adult stem cells for <i>in vivo</i> bone formation and regeneration	Basem Abdallah
12.30 – 13.30	<i>LUNCH</i>	
13.30 – 14.30	MSC with islets and biomaterials	Peetra Magnusson
14.30 – 15.00	<i>COFFEE</i>	
15.00 – 16.00	Secretome of MSC	Li Chen
16.00 – 17.00	Perinatal MSC	Cecilia Götherström

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## Wednesday 20<sup>th</sup> of March

09.00 – 10.00	Characterisation of a novel progenitor cell population from the oral mucosa	Lindsey Davies
10.00 – 10.30	<i>COFFEE</i>	
10.30 – 11.30	Contributions of cancer-associated fibroblasts to cancer initiation, metastasis and drug sensitivity	Arne Östman
11.30 – 12.30	Regeneration of vocal cords using stem cells	Stellan Hertegård
12.30 – 13.30	<i>LUNCH</i>	
13.30 – 14.30	MSC in allogeneic hematopoietic stem cell transplantation	Katarina Le Blanc
14.30 – 15.30	<i>COFFEE</i>	
15.30 – 16.00	Identification and characterization of mouse MSC	Hong Qian
16.00 – 17.00	MSC in peripheral nerve repair	Mikael Wiberg

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## Thursday 21<sup>th</sup> of March

09.00 – 10.00	MSC's as regulators of immune responses	Willem E Fibbe
10.00 – 10.30	<i>COFFEE</i>	
10.30 – 11.30	MSC a possible treatment for autoimmune and degenerative diseases of the CNS	Antonio Uccelli
11.30 – 12.30	TBA	Francesco Dazzi
12.30 – 13.30	<i>MEET THE SPEAKERS LUNCH</i>	
13.30 – 14.30	Clinical MSC production	Helene Roelofs
14.30 – 15.00	<i>COFFEE</i>	
15.00 – 16.00	Identification of primary MSC in human bone marrow	Stefan Scheduling
16.00 – 17.00	MSC for heart regeneration	Karl-Henrik Grinnemo
18.00 ca	<b>Networking dinner at HERM</b> (registration required). Please see below.	

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## Friday 22<sup>nd</sup> of March

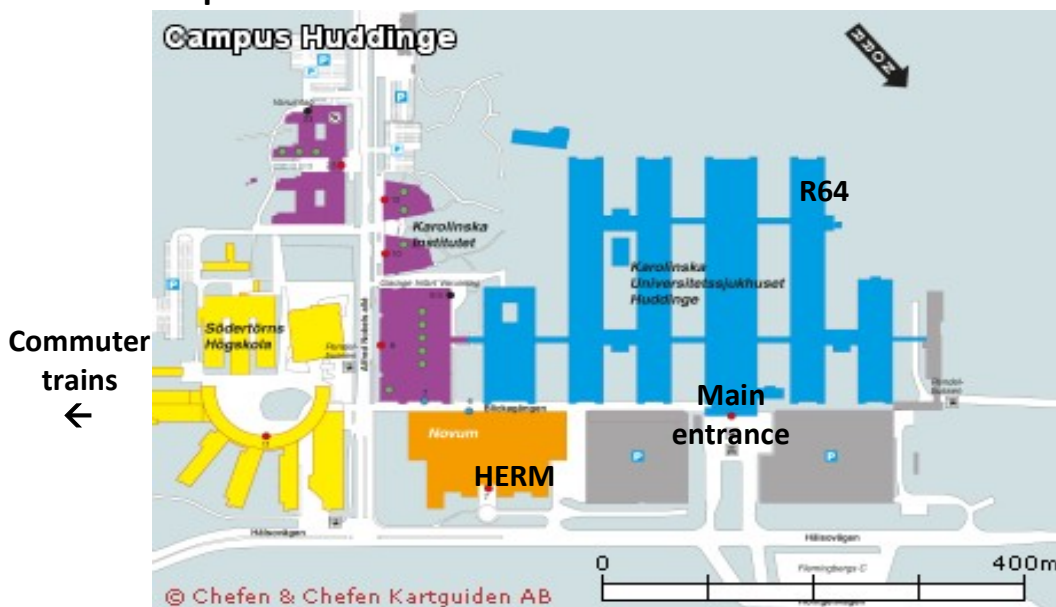
09.00 – 10.00	HSC niche-forming MSC	Simón Méndez Ferrer
10.00 – 10.30	COFFEE	
10.30 – 11.30	Stem cell application -from bench to bedside	Philipp Jungebluth
11.30 – 12.30	Discussion: Problems in/future of the MSC field	Cecilia Götherström Hong Qian
Ca 13.00	End of course	Cecilia Götherström Hong Qian

## Location

Lectures will take place in R64, floor 6, at Karolinska University Hospital Huddinge. The commuter train station is Flemingsberg, from the station follow sign to the main entrance of the hospital.

The course dinner on Thursday the 21<sup>st</sup> of March will take place at Center for Hematology and Regenerative Medicine (HERM), Novum, floor 4, elevator G, Huddinge. You must register to Cecilia Götherström for the dinner to attend it.

## Map





## Suggested reading

### ***Examples of webpages:***

<http://stemcells.nih.gov>

<http://www.explorestemcells.co.uk>

### ***Examples of review articles:***

- Ilic D. Stem cell based therapy-where are we going? Lancet. 2012; 379(9819):877-8.
- Trounson A. Clinical trials for stem cell therapies. BMC Med. 2011; 9:52.
- Chien, K.R. Regenerative medicine and human models of human disease. Nature. 2008; 453(7193):302-5.
- Ankrum J. Mesenchymal stem cell therapy: Two steps forward, one step back. Trends Mol Med. 2010; (5):203-9.
- Keating A. Mesenchymal stromal cells: new directions. Cell Stem Cell. 2012; 10(6):709-16.
- Le Blanc K. Multipotent mesenchymal stromal cells and the innate immune system. Nat Rev Immunol. 2012; 12(5):383-96.