

## **DEVELOPMENT AND REGENERATION OF BONES AND TEETH**

*JOINT RESEARCH COURSE SWEDISH and FINNISH GRADUATE SCHOOLS IN  
ODONTOLOGICAL SCIENCE*

UMEÅ FEBRUARY 8-11 2011

### **Tuesday 8.2: Arrival**

**1700** Dinner at Folkets Hus

**1845** Välkomsthälsning: Ann Wennerberg, Stina Syrjänen

**1900** Candle light lecture : Pancreatic development; the making of a scientist  
(Helena Edlund)

**2000** Get-together at Folkets Hus

### **Wednesday 9.2.**

**0815-0945** From egg to organism – principles of developmental biology (Irma Thesleff)

**0945-1015** Coffee

**1015-1145** Development of the head and face (David Rice)

1200-1330 Lunch

**1330 – 1500** Development of bone and cartilage in the embryo (David Rice)

**1500-1630** Poster session + Coffee

**1630– 1800** Tooth development (Irma Thesleff)

**1830-1930** Dinner at Folkets Hus

**1930** - Poster session continued, with wine etc.

### **Thursday 10.2.**

**0815- 0945** Differentiation and function of osteoblasts and osteocytes (Riku Kiviranta)

**0945-1015** Coffee

**1015-1145** Stem cells (Leif Carlsson)

**1200-1330** Lunch

**1330-1415** Development of skeletal stem cells (Pamela Robey)

**1415-1500** Skeletal stem cells in tissue engineering and regenerative medicine  
(Pamela Robey)

**1500–1530** Coffee

**1530-1615** Tooth regeneration and stem cells (Irma Thesleff)

**1615-1700** Bone extracellular matrix proteins in health and disease (Dick Heinegård)

**1700-1900** Free time??

**1900** Dinner at Sävargården

**Friday 11.2.**

**0830-0915** Differentiation and function of osteoclasts in health and disease (Ulf Lerner)

**0915-1000** Bone as an endocrine organ important for energy metabolism (Ulf Lerner)

**1000-1030** Coffee

**1030-1115** Heterogeneity within osteoblasts and osteoclast in different parts of the skeleton (Vincent Everts)

**1115-1200** Pharmacological treatments of the skeleton targeting osteoblasts or osteoclasts (Östen Ljunggren)

**1200-** Lunch

Departure

All the lectures, lunches and poster viewing will be at Folkets Hus in the downtown area of Umeå.

**Lecturers:**

*Leif Carlsson, Professor* - Umeå Center for Molecular Medicine, Umeå University [leif.carlsson@ucmm.umu.se]

*Helena Edlund, Professor* - Umeå Center for Molecular Medicine, Umeå University [helena.edlund@ucmm.umu.se]

*Vincent Everts, Professor* - Oral Cell Biology, Academic Centre for Dentistry Amsterdam (ACTA),

Universiteit van Amsterdam and Vrije Universiteit [v.everts@acta.nl]

*Dick Heinegård, Professor* - Clinical Sciences, Section for Rheumatology, Molecular Skeletal Biology, Lund University, [Dick.Heinegard@med.lu.se]

*Riku Kiviranta, MD, PhD*, Medical Biochemistry and Genetics, University of Turku [riku.kiviranta@utu.fi]

*Ulf Lerner, Professor* – Oral Cell Biology, Umeå University and Center of Bone and Arthritis Research

Institute of Medicine at Sahlgrenska Academy, University of Gothenburg, University of Gothenburg, [ulf.lerner@odont.umu.se]

*Östen Ljunggren, Professor* – Medical Sciences, Metabolics Bone Diseases, University of Uppsala [osten.ljunggren@medsci.uu.se]

*David Rice, Professor*- Institute of Dentistry, University of Helsinki [david.rice@helsinki.fi]

*Pamela Robey, PhD* – National Institute of Dental and Craniofacial Research, NIH, Bethesda, MD, USA

*Irma Thesleff, Professor* - Institute of Biotechnology, University of Helsinki [irma.thesleff@helsinki.fi]