

PROGRAM FOR THE CONFERENCE



Photo: Lena Holm

# Harnessing Nature's high performance materials for regenerative medicine

September 7, 2012 | Nobel Forum, Karolinska Institutet | Solna

co-organizer:



**Karolinska  
Institutet**

FRIDAY, SEPTEMBER

7

2012, AT NOBEL FORUM

KAROLINSKA INSTITUTET, SOLNA | 12-18 PM

12:00 COFFEE

**12:30-12:50 WELCOME**

Kerstin Svennersten-Sjaunja, Swedish University of Agricultural Sciences, and  
Thomas Sakmar, Rockefeller University and Karolinska Institutet

**12:50-13:10 THE SPIDER REPERTOIRE OF SOUTH AFRICA**

John and Astri Leroy, Spider Club of South Africa, South Africa

*Chairperson: Anna Rising*

**13:10-14:40 SPIDER SILK ENABLES PERIPHERAL NERVE REGENERATION**

Joern W. Kuhbier, Medical School Hannover, Germany

**FROM SPIDER SILK GENES TO BIOMATERIAL**

Anna Rising, Karolinska Institutet and Swedish University of Agricultural Sciences, Sweden

**BIOMIMETIC MATERIALS: COPYING NATURE'S BUILDING BLOCKS FOR ORGAN REPAIR**

May Griffith, Linköpings University, Sweden and University of Ottawa, Canada

*Chairperson: Hans Jörnvall*

14:40-15:00 COFFEE

**15:00-16:40 TISSUE ENGINEERED AIRWAY: A REGENERATIVE SOLUTION**

Paolo Macchiarini, Karolinska Institutet, Sweden

**ENGINEERING PROTEINS FOR STEM CELL DIFFERENTIATION**

Sarah Heilshorn, Stanford University, USA

**TISSUE ENGINEERING OF SKELETAL MUSCLE - A MOLECULAR APPROACH**

Marco C. Harmsen, University of Groningen, The Netherlands

*Chairperson: Ola Hermanson*

16:40-17:00 COFFEE

**17:00-18:00 RECOMBINANT SPIDER SILK PROCESSING**

Thomas Scheibel, Universität Bayreuth, Germany

**BIOMATERIALS AND AN ANTERIOR EYE CHAMBER MODEL  
FOR CELL BIOLOGY STUDIES**

Per-Olof Berggren, Karolinska Institutet, Sweden

*Chairperson: Jan Johansson*

**18:00-18:10 SPIDER AWARDS**

18:10 GET TOGETHER WITH BUFFÉ

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