

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

DESIGNING MATERIALS FOR DIRECTING DIFFERENTIATION OF STEM CELLS TO MYOCYTES

Martin 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

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