



**Biomedical Engineering
at Sydney University
School of Aerospace, Mechanical
and Mechatronic Engineering
&
The Bosch Institute**

**Inaugural Sydney University
Tissue Engineering
Network (SuTEN)
Symposium**

Thursday 23rd November 2006

PROGRAM GUIDE

**Sydney University Tissue Engineering Network (SuTEN) Symposium
23 November, 2006, Darlington Centre, University of Sydney**

PROGRAM

8.00am

Arrival Time

Registration, Coffee, tea, juice and cocktail muffins

8.45am

Welcome and Opening Remarks

Professor Nicholas Hunt, Executive Director, Bosch Research Institute, University of Sydney

Dr Hala Zreiqat, Symposium Convenor, Biomaterials & Tissue Engineering Research Unit, University of Sydney

8.50am

Professor Greg Hancock, Dean, Faculty of Engineering

SESSION 1:

Stem Cells in Tissue Engineering

Chair: Richmond Jeremy

8.55am

Plenary Speaker: Professor Peter Macdonald
Joint Head, Transplant Program, Faculty of
Medicine, UNSW

The use of stem cells to treat heart disease

9.40am

Dr Andrew Zannettino,
Head, Myeloma and Mesenchymal
Research Laboratory,
Division of Haematology, Institute of Medical &
Veterinary Science, Adelaide

The biology and therapeutic application of prospectively
isolated mesenchymal precursor cells

10.05am

Professor John Rasko,
Head, Gene & Stem Cell Therapy Program, Centenary
Institute of Cancer, Medicine & Cell Biology

Cell Therapies: translating research into realities

10.30am—11.00am – Morning Tea

SESSION 2:

**Future Directions for the SuTEN –
Discussion Session**

11.00am

Moderators: Tailoi Chan-Ling, Alex Sharland, Nick Hunt

SESSION 3:

Biomaterials for Different Applications

Chair: Andrew Ruys and David McKenzie

12.00 noon

Professor Tony Weiss
Molecular and Microbial Biosciences, Faculty of
Medicine, University of Sydney

Synthetic elastin: tissue engineering with an elastic matrix

12.25pm

Professor Véronique Migonney
Laboratoire de biomatériaux et polymères de spécialité,
Université Paris13

Bioactive PET: a Way to Develop a Smart Ligament.

12.50pm—1.50pm – Lunch & Industry Exhibition.

**Attendees are encouraged to have their
passport stamped to enter the draw for several
prizes**

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**SESSION 4:
Nanotechnology
Chair: Elspeth McLachlan**

1.50pm
Plenary Talk: **Professor Rutledge Ellis-Behnke**
Brain and Cognitive Science, MIT,
Boston

Nano Neuro Knitting: peptides, Nanofiber scaffolds for brain and axon regeneration with functional return of vision

**SESSION 5:
Skeletal Tissue Engineering
Chair: Rebecca Mason**

2.35pm
Associate Professor Chris Little,
Director, Raymond Purves Bone and Joint Research
Laboratories, University of Sydney, Royal North Shore
Hospital

Cartilage Tissue Engineering – the need to target degradative pathways

3.00pm
Dr Hong Zhou
Senior Research Fellow, ANZAC Research Institute,
University of Sydney

Osteoblasts and Tissue Engineering

3.25pm—4.00pm – Afternoon Tea

**SESSION 6:
Orthopaedics and Medical Devices
Chair: David Sonnabend**

4.00pm
Associate Professor Greg Roger
CEO, Australian Surgical Design and Manufacture

Dynamic Tissue Engineering: Orthopaedics and beyond

4.25pm
Professor David Little
Group Leader, Orthopaedic Research and
Biotechnology Unit, Westmead Hospital

Bone Tissue Engineering by Manipulation of the Anabolic and Catabolic Responses

**SESSION 7:
Future Directions for the SuTEN: Report Back
Discussion**

4.50pm
Moderators: Tailoi Chan-Ling, Alex Sharland, Nick Hunt

**5.35—5.45pm – Presentation of Prizes and
Closing Remarks**

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The Symposium Organisers gratefully acknowledge the financial support of the University of Sydney's School of of Aerospace, Mechanical and Mechatronic Engineering, Faculty Of Medicine, the Bosch Institute, Microsearch Foundation of Australia and our industry sponsors:

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