

ARTIFICIAL HUMAN SPARE PARTS

Friday 17.-Saturday 18.09.2004

Site: Auditorium, Invalid Foundation, Tenholantie 10, 00281 Helsinki

Organizer: Organized by the Biomaterial and Tissue Engineering Graduate School and by the National Graduate School of Clinical Investigation, together with the Finnish Society for Tissue Engineering, the Finnish Society for Biomaterials, TULES Research Society, Suomen Hammaslääkäriseura Apollonian Suulääketieteen jaosto, Invalid Foundation and the EU-supported project Human Spare Parts

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Target group: Graduate School students and medical doctors

Aims: The aim is to give basic insight into use of human reserve parts build of synthetic materials, such as metals, polymers and ceramics. In addition, a special lecture on atherosclerosis is also given.

Structure: Lectures, breakfast with the lecturer

AV equipment: PowerPoint projector, overhead

Material: Lectures, video to net

Credits: 16

Research area: Biomaterial research, tissue engineering

Deadline for registration: 02.09.2004 by e-mail to tules.secretary@helsinki.fi, use title Reserve parts

Participants: 50 participants

Fee: Free entrance for members of the national graduate schools, other participants 200 €

First day

9.00 Opening of the seminar

Professor Mikael Knip, Lasten- ja nuorten sairaala

9.05 Opening of the session

Chair professor Ari Rosling, Åbo Akademi

9.10 Metals as biomaterials

Professor Reijo Lappalainen, KY

9.35 Potential of stem cells in human tissue repair. Examples of stem cell research.

Professor Mustapha Kassem

10.30 Multifunctional biomaterials

Professor Nureddin Ashammakhi

11.00 Atherosclerosis

Dr Markku Pentikäinen, Marian sairaala, Helsinki

12.00-13.00 Lunch

13.00 Opening of the session
Chair docent Dan C.E. Nordström, HUS

13.05 Coronary stents
Dr Mikko Syväne, HUS

13.25 Stents for peripheral blood vessels
Docent Juha-Pekka Salenius, TaYS

13.45 Vascular implants
Dr Ilkka Uurto, TaYS

14.05 Coffee

14.30 Late afternoon session
Chair professor Markku Nieminen, HUS

14.35 Heart-lung bypass
Docent Markku Salmenperä, HUS

15.10 Heart valve prosthesis
Docent Martti Lepojärvi, OYS

15.50 Heart pacemakers
Docent Lauri Toivonen, HUS

16.30 Coffee

Chair professor Minna Kellomäki, TTY

17.00 Ear implants
Dr Antti Aarnisalo, HUS

17.30 Contact lenses and implants in ophthalmology
Professor Timo Tervo, HUS

18.00 Hammasimplantit
Dr Antti Pihakari, Helsingin kaupungin terveydenhoitovirasta, Suun erikoishoidon yksikkö

19.00 Seminaarin ensimmäisen päivän päätös

Second day

09.00 Opening of the session
Chair Dr Jyrki Törnwall, HUS

09.05 Biomaterials in maxillofacial surgery
Dr Jyrki Törnwall, HUS

10.00 Total joint replacement implants
Dr Jari Salo, HUS

10.55 Biodegradable urological stents
Professor Teuvo Tammela, TaYS

11.25 Injectable biomaterials in soft tissue augmentation
Dr Eero Waris, HUS

12.00-13.00 Lunch

13.00 Opening of the session
Chair docent Seija-Liisa Karvonen

13.05 Principles of artificial skin engineering
Professor Ilkka Harvima, KYS

13.35 Artificial skin
Docent Annikki Vaalasti, TaYS

14.05 Silicones for breast augmentation
Dr Stephan Dietz, Siluetti

14.40 Concluding words
Professor Yrjö T. Konttinen

14.45 End of the symposium