

Wednesday, 3 September 2008

POSTGRADUATE COURSES PART I

13:30 - 14:45

Complications associated with the use of biomaterials in dialysis

Room A

Chairpersons: M. Burnier, Lausanne (SUI), D. Teta, Lausanne (SUI)

Patrick Saudan, Geneva (SUI)

Complications of venous catheters

Pierre-Yves Martin, Geneva (SUI)

Complications of dialysis membranes

European Granting & Technology Transfer

HEALTH in FP7: Opportunities, participation rules, keys for success

Room C

Chairpersons: K. Mottaghy, Aachen (GER), A. Waehry, Geneva (SUI)

Judith Zbinden, Swiss NCP HEALTH, Euresearch HO Bern (SUI)

Health opportunities in FP7

Veronique Sordet, Euresearch Geneva (SUI)

FP7 participation rules

Interactive Session

"How to make a successful application"

POSTGRADUATE COURSES PART II

15:15 - 16:45

Complications associated with the use of biomaterials in dialysis

Room A

Chairpersons: P.-Y. Martin, Geneva (SUI), P. Saudan, Geneva (SUI)

Menno Pruijm, Lausanne (SUI)

Complications of plasmapheresis

Daniel Teta, Lausanne (SUI)

Complications of peritoneal dialysis

European Granting & Technology Transfer

From the Innovation to the product

Room C

With the kind support of BioAlps

Chairpersons: D. Falkenhagen, Krems (AUT), N. Maturana, Geneva (SUI)

Alexandra Richardson, (UNITEC) Geneva (SUI)

Intellectual property and technology transfer

Benoit Dubuis, (President BioAlps Association), Geneva (SUI)

Regional networks and innovation supports

Jesus Martin-Garcia, Benoit Dubuis, (ECLOSSION), Geneva (SUI)

From the innovation to the product (with film - 4 minutes)



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OPENING CEREMONY

17:00 - 18:00

Room B

Welcome Address

Beat H. Walpoth, Geneva (SUI) ESAO & Congress President

Music

Allocutions

Pierre-François Unger, State Council, Department of Economy and Health, Geneva (SUI)

Jean-Dominique Vassalli, Rector, University of Geneva (SUI)

Patrick Francioli, Dean, Faculty of Biology & Medicine, University of Lausanne (SUI)

Music

PLENARY SESSION

18:00 - 19:00

Room B

Highlights from the organising Universities

Chairpersons:

B. Meyns, Leuven (NDL), P. Hoffmeyer, Geneva (SUI), B.H. Walpoth, Geneva (SUI)

Jeffrey Hubbell, EPFL, Lausanne (SUI)

Molecular and cellular engineering toward artificial organs research

Yan Barrandon, Joint Chair EPFL-CHUV, Lausanne (SUI)

Stem cells: teaching old dogs new tricks

Afksendiyos Kalangos, HUG, Geneva (SUI)

Clinical application of cardiovascular biomaterials - from the polymer to the patient

Music

WELCOME RECEPTION

19:00 - 20:00

With the kind support of the Republic and Canton of Geneva Exhibition Area

"Swiss Yodel"

by Barbara Klossner & Clara May



Thursday, 4 September 2008

PLENARY SESSION

08:30 - 09:30

LIVER

Room B

With the kind support of Novartis Pharma Schweiz

Chairpersons: D. Falkenhagen, Krems (AUT), N. Demartines, Lausanne (SUI),
P. Dayer, Geneva (SUI)

Igor M. Sauer, Berlin (GER)

Extracorporeal liver support - back from bed to bench?

Philippe Morel, Geneva (SUI)

Liver transplant: what does the future hold?

Vladimir Mironov, Charlston (USA)

Organ printing: directed tissue self-assembly

AFFILIATED SOCIETY SYMPOSIA

10:00 - 11:00



ESOT

Organ Viability & Preservation for Transplantation

Room A

Chairpersons: G. Rakhorst, Groningen (NLD), H. Leuvenink, Groningen (NLD)

Henri Leuvenink, Groningen (NLD)

Preservation & innovative techniques of perfusion to maintain organ viability

Michiel Erasmus, Groningen (NLD)

Lung perfusion, non-heartbeating donation and transplantation

Thierry Berney, Geneva (SUI)

Islet transplantation



ASAIO

Highlights from the ASAIO 2008 meeting

Room B

Chairpersons: S. Ash, Lafayette (USA), E. Leonard, New York (USA)

Keefe Manning, University Park (USA)

Bioengineering

Steve Ash, Lafayette (USA)

Renal

Keefe Manning, University Park (USA)

Cardiovascular



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 termis.	TERMIS Strategies for Tissue Engineering of Connective Tissues	Room C
Chairpersons: R. Reis, Porto (POR), I. Martin, Basle (SUI)		
Rui L. Reis, Porto (POR) New strategies for tissue engineering of bone and osteochondral defects		
Ivan Martin, Basle (SUI) Mesenchymal stem cell expansion in 3D perfusion systems		

CORPORATE MEMBERS SYMPOSIUM

11:00 - 12:00

Therapy development to meet future patient requirements

Room B

Chairpersons: I. Ledebö, Lund (SWE), B. H. Walpoth, Geneva (SUI)

Sudhir Bowry, Bad Homburg (GER), Fresenius Medical Care

Uremic toxins - what should and can be removed with current membranes and treatment modalities to improve patient outcomes?

Peter Rutherford, Zürich (SUI), Baxter Healthcare

Simplicity and complexity - treating tomorrow's patients

Ingrid Ledebö, Lund (SWE), Gambro

Future development of dialysis

SUPPORTED LUNCH SYMPOSIA

12:00 - 13:30

Autologous Cell Therapies for Dermal Repair and Regeneration

Room A

With the kind support of ReGen Lab

Chairpersons: A. Gondinet, Paris (FRA), W. Raffoul, Lausanne (SUI)

Wassim Raffoul, Lausanne (SUI)

New Wound Treatment by Autologous Platelet Growth Factors

Alain Gondinet, Paris (FRA)

Autologous Cell Biostimulation for the Treatment of Oxidative Stress

Pulsatile versus Non Pulsatile Flow for Cardiac Support

Room B

With the kind support of Berlin Heart

Chairpersons: H. Schima, Vienna (AUT), M Cikirkcioglu, Geneva (SUI)

Heinrich Schima, Vienna (AUT)

Physiological aspects of continuous flow

Andreas Arndt, Berlin (GER)

Enhancing the pulsatility of rotary blood pumps - options and limitations

Johannes Müller, Berlin (GER)

Clinical experience with semi pulsatile blood flow



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Extracorporeal Blood Circuits for Liver Failure Therapies

Room C

With the kind support of Fresenius Medical Care

Chairpersons: D. Falkenhagen, Krems (AUT), A. Hadengue, Geneva (SUI)

Igor Sauer, Berlin (GER)

Clinical experience with extracorporeal liver assist devices

Horst Christmann, Bad Homburg (GER)

Technical advances to improve the performance of the prometheus system

Peter Krisper, Graz (AUT)

Optimizing anticoagulation in extra-corporeal blood circuits for liver failure therapy

ORAL SESSIONS

13:30 - 15:00

Technology in Tissue Engineering

Room A

Chairpersons: R. Reis, Porto (POR), M. Swartz, Lausanne (SUI)

Carmine Gentile, Charleston, SC (USA)

P. Fleming - J. Zhang - R. P. Visconti - C. J. Visconti - V. Mironov

O1 Bioprinting of blood vessels: vascular tissue spheroids as building blocks

Willem F. Wolkers, Hannover (GER)

N. B. Shah - M. Morrissey - B. Glasmacher - W. Q. Sun - J. C. Bischof

O2 Biological skin replacement: the need for sterilization

Birgit Glasmacher, Hannover (GER)

N. Hofmann - I. Bernemann

O3 Cryopreservation of tissue and tissue engineered products

Christoph Becker, Aachen (GER)

C. Wallang - G. Artmann - G. Jakse

O4 Mechanotransduction-bioreactor for tissue engineering of a ureter prosthesis

Kiyotaka Iwasaki, Tokyo (JPN)

K. Kojima - S. Kodama - C. A. Paz - M. Umezawa - C. A. Vacanti

O5 Tissue engineering artery utilizing the physiologic pulsatile bioreactor

Peter M. Czermak, Giessen (GER)

C. Weber - S. Pohl - R. Poertner - C. Wallrapp - P. Geigle

O6 Development of a production process for stem cell based cell therapeutic implants

Cardiovascular Implants I: Valves and Myocardium

Room B

Chairpersons: G. Wieselthaler, Vienna (AUT), M. Kutryk, Toronto (CAN)

Keefe B. Manning, University Park (USA)

L. H. Herbertson - S. Deutsch

O7 The effects of fluid properties and flow conditions on local bi-leaflet mechanical heart valve hemodynamics



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Norbert W. Guldner, Lübeck (GER)

M. Heinlein - I. Jasmund - V. Meier - F. Flüß - A. Gebert - H. Sievers

O8 Titanized glutaraldehyde fixed heart valve prostheses with less calcification and total endothelialization

Mustafa Cikirkcioglu, Geneva (SUI)

A. Kalangos - N. Jaffe - P. O. Myers

O9 Assessment of bio-mechanical performance of the new bioprosthesis (kalangos® heart valve) in the sheep model

Ivan Bouzguenda, Lille (FRA)

F. Godart - F. Juthier - F. Wautot - A. Prat - C. Rey - D. Corseaux - A. Ung -

B. Jude - A. Vincentelli

O10 Off-pump transventricular pulmonary replacement using a decellularized porine valve on a SLF-expandable stent : a new approach for pulmonary valve incompetence?

Mustafa Cikirkcioglu, Geneva (SUI)

M. Bicer - P. O. Myers - E. Pektok - A. Kalangos

O11 Atrioventricular valve repair using a biodegradable annuloplasty ring in children

Marisa E. Jaconi, Geneva (SUI)

M. Hauwel - M. Lepetit-Coiffe - P. Zammaretti - J. Vallée

O12 Embryonic stem cell-based tissue engineering for the regeneration of the infarcted heart

One Day on the Liver - Scientific Session

Room C

Chairpersons: I. M. Sauer, Berlin (GER), T. Berney, Geneva (SUI)

Ruurdje Hoekstra, Amsterdam (NLD)

P. P. C. Poyck - G. Nibourg - J. L. Vermeulen - A. C. van Wijk - R. A. Chamuleau -

T. B. Hakvoort - T. M. van Gulik - W. H. Lamers

O13 A new application of the AMC-bioartificial liver: a model to study the establishment of metabolic zonation in the liver

Enrico Gringeri, Padova (ITA)

A. Carraro - D. Bassi - F. E. D'Amico - F. Calabrese - D. Neri - P. Violi -

M. Valmasoni - A. Vitale - F. D'Amico - U. Cillo

O14 A new system of sub-normotermic perfusion for liver preservation in a pig model

Antonino Sgroi, Geneva (SUI)

G. Mai - P. Morel - R. Baertschiger - C. Gonelle-Gispert - V. Serre-Beinier - L. Buhler

O15 Transplantation of immortalized human hepatocytes improves survival without increase of native liver regeneration in acute liver failure.

Simona Salerno, Rende, CS (ITA)

A. Piscioneri - S. Morelli - S. Laera - M. Rende - P. Favia - E. Drioli - A. Bader -

L. De Bartolo

O16 Behaviour of human hepatocyte in ammonia plasma-grafted peek-wc-pu membrane bio-hybrid system

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Nora N. Kammer, Berlin (GER)

N. Billecke - N. Raschzok - M. H. Morgul - M. K. Adonopoulou - I. M. Sauer

O17 Labelling of primary human hepatocytes with micron-sized iron oxide particles in temporary suspension culture

Kazuaki Inoue, Yokohama (JPN)

M. Yamada - M. Yoshioka

O18 Online HDF system with good removal capacity of glutamine brings good clinical effect

SPECIAL SYMPOSIUM

13:30 - 15:00

WAA - ESFH I

Room D

Chairpersons: B. Stegmayr, Umea (SWE), V. Witt, Vienna (AUT)

Dieter Falkenhagen, Krems (AUT)

Adsorption of endotoxins: new possibilities using old principles

Jens Altrichter, Rostock (GER)

Extracorporeal cell therapy with granulocytes in sepsis and septic shock - in vivo and clinical results

Martin Scholz, Düsseldorf (GER)

The leukocyte inhibition module in apheresis - immunomodulation in cardiac surgery, intensive care and autoimmune disease

Dieter Falkenhagen, Krems (AUT)

Citrate anticoagulation in apheresis treatment - how to optimise

Volker Witt, Vienna (AUT)

Anticoagulation with citrate and electrolyte imbalance in children during apheresis

MODERATED POSTER SESSION I

15:00 - 16:00

See page 20

3rd floor

ORAL SESSIONS

16:00 - 17:30

Transplantation - Organ Preservation and Marginal Organs

Room A

Chairpersons: G. Rakhorst, Groningen (NLD), L. Buhler, Geneva (SUI)

Marie-Claire J.M. Schreinemachers, Amsterdam (NLD)

B. M. Doorschot - M. M. Idu - R. H. Tolba - T. M. van Gulik

O19 Recovery of warm ischemically damaged kidneys using a novel organ perfusion system

Edwin F. Dierselhuis, Groningen (NLD)

A. van Der Plaats - W. Van Oeveren - H. G. D. Leuvenink - R. J. Ploeg

G. Rakhorst

O20 Hypothermic in situ machine perfusion of donor organs during non-heart-beating donation



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Alvaro Rojas, Ann Arbor (USA)

J. L. Reoma - S. Hao - E. Krause - K. E. Cook - R. H. Bartlett - J. D. Punch

O21 Organ recovery using extracorporeal support improves function of renal grafts from donors after circulatory determination of death (DCDD)

Nicole Lanci, Bologna (ITA)

G. La Manna - M. L. Cappuccilli - D. Conte - S. Corsini - A. M. Ferri - E. Carretta - M. P. Scolari - S. Stefoni

O22 Oxidative stress in kidney transplant recipients

Jean-Bernard Buchs, Geneva (SUI)

F. Lazeyras - L. Bühler - A. Nastasi - R. Ruttimann - P. Morel

O23 A new machine, magnetic resonance compatible, able to test, by gadolinium perfusion imaging, the vascular anatomy and the quality of perfusion in marginal kidneys reanimated by oxygenated hypothermic pulsatile perfusion.

Jiyoung Y. Lee, Seoul (KOR)

S. W. Byun - W. S. Yang - S. B. Kim - S. K. Park - S. K. Lee - J. S. Park - J. W. Chang

O24 Molecular adsorbents recirculating system (mars) dialysis for graft dysfunction after liver transplantation : single center experience

Cardiovascular Implants II: Grafts and Stents

Room B

Chairpersons: O.M. Hess, Bern (SUI), B. Podesser, Vienna (AUT)

Anette Runtemund, Hanover (GER)

R. Autschbach - P. Vogt - A. Jokuszies - T. Welte - B. Glasmacher

O25 Mechanotransduction of endothelial cells: uptake of quantum dots under controlled shear stress conditions

Patricia S. Wolfe, Richmond (USA)

P. A. Madurantakam - K. Garg - S. A. Sell - M. J. Beckman - G. L. Bowlin

O26 Evaluation of thrombogenic potential of electrospun bioresorbable vascular graft materials

Martina Seifert, Berlin (GER)

J. Trommer - B. Fleischer - E. Effenberger - J. Hansmann - C. Giese - R. Ammer

O27 Features of decellularized aortic matrices seeded with endothelial cells in a newly developed pulsatile flow bioreactor

Alessio Rungatscher, Geneva (SUI)

D. Kong - J. Tille - B. Nottelet - A. Bayoumi - M. Moeller - R. Gurny -

A. Kalangos - B. H. Walpot

O28 Vascular tissue engineering using mesenchymal stem-cells (MSCS) seeding on synthetic biodegradable vascular grafts

F. Innocente, Geneva (SUI)

B. Nottelet - J. Tille - E. Pektok - M. Moeller - R. Gurny - A. Kalangos - B. H. Walpot

O29 Drug eluting degradable synthetic vascular prostheses

Catrin Bludszuweit-Philipp, Rostock (GER)

A. Geltmeier - M. Buske

O30 Virtual stenting for customisation of endovascular devices



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Biomaterials

Room C

Chairpersons: B. Glasmacher, Hannover (GER), G. Catapano, Rende (ITA)

Christian Hess, Hannover (GER)

B. Wiegmann - P. Zardo - A. Maurer - A. Hilfiker - U. Martin - A. Haverich - S. Fischer
O31 Endothelialisation of artificial poly 4-methyl-1-pentene (PMP) membranes with gas exchange properties

Andreas Szentivanyi, Hannover (GER)

S. Barcikowski - J. Jakobi - B. Glasmacher

O32 Modification of collagen/peo nanofiber scaffolds using metallic nanoparticles

Stefania Lamponi, Siena (ITA), C. Dicanio - M. Forbicioni - R. Barbucci

O33 Heterotypic interaction of fibroblasts and endothelial cells on restricted area

Thomas M. Groth, Halle-Saale (GER)

Q. Gu - A. Barry - Z. M. Liu

O34 Adhesion and differentiation of human mesenchymal stem cells on biogenic polyelectrolyte multilayers

Anja R. Hillmer, Hannover (GER)

C. Allmeling - K. Reimers - J. W. Kuhbier - P. M. Vogt

O35 Co-cultivation of different cell types on spider silk fibres

Giuseppe A. Perale, Milan (ITA)

G. Pertici - S. Maccagnan - M. Mueller

O36 Porous biodegradable microfibers for scaffold manufacturing

YOUNG INVESTIGATOR'S LIVER SESSION

16:00 - 17:30

With the kind support of Fresenius Medical Care

Room D

Chairpersons: N.N. Kammer, Berlin (GER), S. Salerno, Rende (ITA)

Saba Habibollah, Newcastle (GBR)

Beyond haematology: cord blood for liver therapy

Nils Billecke, Berlin (GER)

The multicompartment slidereactor: a novel concept for continuous monitoring of co-cultured cells

Jean-Mathieu Prot, Compiègne (FRA)

Growth characterisation of hepatocarcinoma cells cultivated in a microfluidic biochip

Simona Salerno, Rende (ITA)

Membrane biohybrid systems for liver tissue engineering

Stephan Harm, Krems (AUT)

Encapsulated liver cells for the hybrid MDS

CONCERT AT THE "CONSERVATOIRE DE MUSIQUE"

19:00 - 20:00

With the kind support of the Hans Wilsdorf Foundation

Quatuor Terpsycorder (for programme see page 53)



Moderated Poster Session I

Thursday, 4 September 2008 – 15:00-16:00 - 3rd floor

BIO-ARTIFICIAL TISSUES I

Chairpersons: C. Légallais, Y. Harder

- P1 PRIMARY STABILITY OF IMMEDIATE DENTAL IMPLANTS: CONVENTIONAL PLACEMENT VERSUS AN OSTEOTOME TECHNIQUE / A. M. Kokat* - A. Comert - I. Tekdemir - K. Akca - M. C. Cehreli
- P2 THE TREATMENT OF FOCAL CARTILAGE DEFECTS USING A COMPRESSED, CELL-FREE COLLAGEN TYPE-I GEL SEEDED WITH BMP-7 LOADED POLYLACTIDE MICROSPHERES IN THE GÖTTINGER MINIPIG / K. Gavenis* - R. Mueller-Rath - S. Andereya - U. Schneider - B. Schmidt-Rohlfing
- P3 IN VITRO ANALYSIS OF THE BONE ONGROWTH AT BIOACTIVE IMPLANT SURFACES / K. Lochner* - C. Erdmann - B. Lüdtke - D. Hansmann - G. Fulda - H. Neumann - W. Mittelmeier - R. Bader
- P4 NOVEL PEPTIDES HAVING BFGF-LIKE ACTIVITIES AND THEIR APPLICATION TO SCAFFOLDS FOR TISSUE REGENERATION / M. Tanihara* - S. Hirohara - T. Ando - Y. Suzuki - Y. Suzuki
- P5 AN OBJECTIVE MEASURING DEVICE FOR SURFACE ROUGHNESS IN CLINICAL EVALUATION OF ARTIFICIAL SKIN / M. C. T. Bloemen* - M. S. van Gerven - E. Middelkoop
- P6 CA2+ IS REQUIRED FOR ELECTRIC FIELD-DIRECTED MOTILITY OF OSTEOBLAST-LIKE CELLS / N. Özkucur* - S. Perike - S. Wetzel - R. H. W. Funk
- P7 SCAFFOLDS OF BOVINE DERIVED HYDROXYAPATITE (BHA) COMPOSITES DOPED WITH MAGNESIUM FLUORIDE / O. Gunduz - U. Karacayli* - S. Salman - P. Valerio - A. M. Goes - S. Agathopoulos - F. Oktar

BIOMATERIALS I

Chairpersons: R. Reis, G. Bowlin

- P15 IMPLANTED BIODEGRADABLE MATERIALS: THE BEHAVIOUR OF BIOMOLECULES / C. M. Alves* - A. P. Marques - R. L. Reis - J. A. Hunt
- P16 NEW HYDROGEL FOR NEUROGLIAL CELL HOUSING / G. A. Perale* - C. Giordano - F. Bianco - F. Daniele - F. Rossi - M. Matteoli - M. Masi
- P17 RESPONSES OF FREE RADICALS TO SUBCUTANEOUS IMPLANTATION OF ALGINATE-CHITOSAN-ALGINATE (ACA) MICROCAPSULES IN MICE / H. B. Zhu* - D. Z. Guo - S. J. Yang - D. C. Chen
- P20 POROUS TICO-HYDROXYAPATITE BIOMATERIALS / O. K. Kamynina* - A. E. Sytschev - E. A. Krylova - I. G. Plashchina - S. G. Vadchenko - I. I. Selezneva - A. N. Konovalov - A. S. Grigor'yan - A. K. Toporkova
- P21 CRYSTALLIZATION OF A BONE-LIKE APATITE FROM A MILK-CONTAINED / S. V. Dorozhkin - E. I. Dorozhkina - U. Umit Karacayli* - F. Oktar



- P22 USE OF SYNTHETIC AND NATURAL SCAFFOLDS TO DEVELOP NEW CLINICAL APPLICATIONS FOR CORNEAL EPITHELIAL STEM CELLS / V. Barbaro* - E. Di Iorio - S. Ferrari - D. Ponzin

CARDIAC ASSIST DEVICE - CLINICAL I

Chairpersons: G. Wieselthaler, E. Pektok

- P38 BODY PERfusion DURING ADULT CARDIOPULMONARY BYPASS IS IMPROVED BY PULSATILE FLOW WITH INTRA-AORTIC BALLOON PUMP / F. Onorati* - G. Santarpino - S. Caroleo - A. Dardano - C. Scalas - E. Gulletta - E. Santangelo - A. Renzulli
- P39 CRRT TAILORED TO PHYSIOLOGICAL CHARACTERISTICS OF A PATIENT WITH HEART DEVICE / G. Puma* - M. De Giorgi - E. Pierobon - B. Polverino - G. Scaparrotta - R. Bianco - G. Gerosa - A. D'Angelo
- P40 TEMPORARY MECHANICAL SUPPORT FOR POSTOPERATIVE RIGHT HEART FAILURE USING THE IMPELLA RECOVER RD AXIAL FLOW PUMP / H. Sugiki* - K. Nakashima - E. Vermes - D. Loisance - M. Kirsch
- P41 COMPARISON OF MINI-BYPASS SYSTEMS (MINBP) VERSUS CONVENTIONAL EXTRACORPOREAL CIRCULATION (CECC) REGARDING HEMODILUTION AND BLOOD SUBSTITUTION / M. Pertheil* - L. El-Ayoubi - A. Alken - M. Gerigk - M. Machner - G. Wimmer-Greinecker
- P42 LONG-TERM CLINICAL USE OF EXTRACORPOREAL CARDIOPULMONARY ASSIST DEVICE WITH THE GYRO C1E3 CENTRIFUGAL BLOOD PUMP / N. Tabayashi* - Y. Kameda - Y. Yoshikawa - T. Abe - H. Naito - Y. Hayata - T. Hirose - M. Yokota - Y. Iwashita - S. Taniguchi
- P43 THE COMPARATIVE STUDY OF PULSATILE(T-PLS) AND NONPULSATILE(BIO-PUMP) PERfusion IN CARDIAC SURGERY / Y. S. Won* - J. W. Lee - H. K. Shin - Y. W. Park - K. Her

CARDIAC ASSIST DEVICE - TECHNICAL I

Chairperson: J. del Canizo, U. Steinseiffer

- P49 DEVELOPMENT OF A NEW LEFT VENTRICULAR ASSIST DEVICE: HEART TURCICA CENTRIFUGAL / I. Lazoglu - E. Biyikli - C. Ersanli - O. Demir - G. Yildiz - S. Kucukaksu*
- P50 A NEW HYBRID (HYDRO-NUMERICAL) MODEL OF THE LEFT VENTRICLE / M. Kozarski - G. Ferrari - K. Zielinski* - K. Gorczynska - K. J. Palko - C. De Lazzari - A. Di Molfetta - D. Bozewicz - M. Darowski
- P51 FIRST STEPS IN MUSCLE STATE MONITORING FOR BIOMECHANICAL CARDIAC ASSIST DEVICES / P. R. J. Margaritoff* - P. Klaproth - R. Saraei - M. Grossherr - N. W. Guldner
- P52 CREATION TECHNOLOGY OF MANUFACTURE AND ASSEMBLY ARTIFICIAL VENTRICLE OF HEART (AVH) PULSATILE TYPE / V. V. Morozov* - A. V. Zhdanov - I. V. Lukovenko - A. I. Yolkin
- P53 COMPUTER AIDED TECHNOLOGY FOR DESIGNING AND MANUFACTURING OF ARTIFICIAL HEART VENTRICLES / V. V. Morozov* - A. B. Kosterin - E. I. Shmygov
- P54 OPTIMIZATION OF DESIGN ARTIFICIAL VENTRICLE OF HEART (AVH) PULSATILE TYPE IN CAD/CAE -SYSTEM / V. V. Morozov* - A. V. Zhdanov - E. A. Novikova - A. I. Yolkin
- P55 DEVELOPMENT OF A NEWLY DESIGNED TUBE FOR AORTIC CANNULA IN THE VENTRICULAR ASSIST SYSTEM / Y. Yabushita* - S. Nakano - T. Fujimoto - N. Kabe - M. Umez



- P55b INNOVATIVE SURGICAL APPROACH FOR CONGENITAL CARDIOVASCULAR DISEASE IN CHILDREN USING REAL-TIME 3D ECHOCARDIOGRAPHY / S. Donatiello* - B. Leonardi - G. De Angelis - C. Del Gaudio - S. P. Sanders - M. Grigioni

CARDIAC VALVES

- Chairpersons: B. Meyns, J. Christenson
- P68 PROCESSING OF BOVINE PERICARDIUM FOR SCAFFOLD CONSTRUCTION IN TISSUE ENGINEERED HEART VALVE PROSTHESES / I. N. Cestari - F. U. Gamero - N. A. G. Stolff - P. M. A. Pomerantzeff - M. Canzian - I. A. Cestari - A. A. Leirner*
- P69 EFFECT OF EPOXIDE FIXATION TO DEGRADATION OF PORCINE ENDOGENOUS RETROVIRUS DNA IN PORCINE VALVES / A. Niemiec-Cyganek* - L. Pawlus-Lachecka - J. Wszolek - B. Strzalka-Mrozik - J. Adamska - J. A. Kudrjavtseva - I. Jouravleva - U. Mazurek
- P70 HEART VALVE AND MYOCARDIUM TISSUE ENGINEERING: SMOOTH MUSCLE CELLS AND MYOCARDIOCYTES ADHESION TESTS FOR TISSUE ENGINEERING / A. Gandaglia* - R. Huerta Cantillo - F. Naso - M. Spina - F. Ghezzo - M. Dettin - G. Gerosa
- P71 REPLACING THE DISEASED AORTIC VALVE AND THE PROXIMAL AORTA IN THE ELDERLY / A. John* - B. Al-Hariri - J. Ackemann - H. Warnecke
- P72 STRUCTURAL AND MECHANICAL STABILITY OF DECELLULARIZED PORCINE VALVE MATRIX CROSSLINKED WITH CARBODIIMIDE / A. Baranska* - B. Kubin - P. Wilczek - J. Nozynski - K. Helewski - R. Wojnicz
- P73 HEART VALVE REGENERATION: TWELVE MONTHS RESULTS OF CELL REPOPULATION OF VALVED AORTIC CONDUITS AFTER DECELLULARIZATION AND ALLOGENEIC TRANSPLANTATION / A. Gandaglia - M. Spina - F. Naso - P. Franci - L. Bellini - H. Poser - R. Busetto - M. Marchini - F. Ortolani - A. Bonetti - C. Basso - R. Bianco - M. Micciolo - G. Gerosa*
- P74 STRUCTURAL IMPROVEMENT IN AUTOLOGOUS TISSUE HEART VALVES (BIOVALVES) CONSTRUCTED BY SYMPLE IN VIVO TISSUE ENGINEERING / K. Kanda* - M. Onoyama - Y. Yahata - H. Ishida - T. Tajikawa - K. Ohba - T. Oie - Y. Okamoto - Y. Nemoto - H. Ueda - K. Hayashida - T. Watanabe - M. Yamanami - H. Yaku - Y. Nakayama
- P75 ATRIOVENTRICULAR VALVE REPAIR USING A BIODEGRADABLE ANNULOPLASTY RING IN THE ADULT POPULATION: COHORT ANALYSIS OF 173 IMPLANTATIONS / M. Cikirkcioglu* - M. Bicer - E. Pektok - P. O. Myers - A. Kalangos
- P76 IN VITRO HEMOCOMPATIBILITY ASSESSMENT OF BIOLOGICAL HEART VALVES BY RECELLULARIZATION WITH AUTOLOGOUS HUMAN CELLS / S. Schopka* - C. Schmid - M. Hilker - S. Hirt - K. Lehle

CARDIOVASCULAR GRAFTS

- Chairpersons: H. Schima, D. Mugnai
- P77 THE PORCINE PERICARDIUM TISSUES STRUCTURE AFTER STERILIZATION IN PENICILLIN SOLUTIONS / A. Turek* - B. Cwalina - J. Nozynski - I. Mroz
- P78 THE INFLUENCE OF DECELLULARIZATION ON THE PROTEINS STABILITY IN PORCINE PERICARDIUM TISSUES / A. Turek* - B. Cwalina
- P79 CATHETER TIP FORCE REQUIRED TO MECHANICALLY PERFORATE THE CARDIAC FREE WALL / D. Shah* - H. Lambert - N. Saoudi - Y. Vanenkov - B. Walpoth - N. Aeby - P. Gentil-Baron



- P80 WHICH IS THE BEST VASCULAR GRAFT: SYNTHETIC OR BIOLOGIC? / E. Khabiri* - B. H. Walpath - A. Kalangos
- P81 BIORESORBABLE VASCULAR GRAFT DESIGN AND DEVELOPMENT / G. L. Bowlin*
- P82 PLATELET ACTIVATION AND HEMOLYSIS BY HIGH SHEAR STRESS / L. Kruse* - M. Modigell - B. Glasmacher
- P83 NANOSCALE SPUN FIBERS FOR ARTIFICIAL MUSCLE ENGINEERING / M. N. Giraud* - D. Keller - D. Balazs - H. Tevaearai - G. Fortunato
- P84 VASCULAR GRAFTS SEEDED WITH MHC I DEFICIENT ENDOTHELIAL CELLS AND THEIR IMMUNOGENICITY IN VIVO / M. Seifert* - B. Fleischer - I. Schmitt-Knosalla - S. Brösel - E. Effenberger - J. Ladhoff - H. D. Volk
- P85 BIOMATERIAL SURFACE CHEMISTRY CONTROL OF FABRICATION OF BIOTUBE VASCULAR GRAFTS IN VIVO / Y. Nakayama* - K. Takamizawa - H. Ishibashi-Ueda - K. Kanda

CELL CULTURE I

Chairpersons: B. Glasmacher, T. Laumonier

- P86 A PRESSURE ACTUATED BIOREACTOR FOR 1 DIMENSIONAL STRAIN CONDITIONING OF TISSUE ENGINEERED BIOPROSTHESES / A. C. Ritchie* - T. Sumitro - P. Tong - W. Ong - W. Chan - E. Khalif - D. L. Butler
- P87 MODULATION OF ENDOTHELIAL CELL ACTIVATION IN A CELL CULTURE-BASED MODEL OF ENDOTOXEMIA / A. Schildberger* - E. Roßmanith - D. Schwanzer-Pfeiffer - V. Weber - D. Falkenhagen
- P88 ADIPOSE-DERIVED STEM CELLS DIFFERENTIATE INTO A SCHWANN CELL PHENOTYPE / D. Kalbermatten* - P. Disumma - D. Espinoza - W. Raffoul - D. Egloff - M. Wiberg - G. Terenghi - P. J. Kingham
- P89 PROTEIN-BASED BIOENGINEERING FOR TISSUE REGENERATION / W. Kang - S. Park - E. Jeon - J. Jang*
- P90 MYOBLAST SHEET-MEDIATED BCL-2 GENE THERAPY IN ACUTE MYOCARDIAL INFARCTION / K. Kitabayashi* - A. Siltanen - T. Pätilä - E. Kankuri - M. Ono - Y. Sawa - A. Harjula
- P91 MECHANIC STIMULATION OF ENDOTHELIAL CELLS, TESTING THE SAFETY OF AN INNOVATIVE APPROACH TO REGENERATE ISCHEMIC HEARTS / S. Mina* - D. Milasinovic - C. Khazen - W. Mohl
- P92 PRE-VASCULAR STRUCTURES FORMED BY OUTGROWTH ENDOTHELIAL CELLS (OEC) CO-CULTURED WITH HUMAN PRIMARY OSTEOBLASTS (POB) ON SILK-FIBROIN FIBER MESHES / X. Jiang* - S. Fuchs - A. Motta - C. Migliaresi - C. J. Kirkpatrick

CELL TRANSPLANTATION & TISSUE ENGINEERING I

Chairpersons: A. Bader, W. Wolkers

- P99 OZONATED AUTOHAEMOTHERAPY INDUCES HEALING OF HUMAN CHRONIC ULCERS NOT RESPONDING TO CONVENTIONAL PHARMACOLOGICAL AND SURGICAL TREATMENT: CLINICAL STUDY / A. De Monte* - M. Girardis
- P100 CELL TRANSPLANTATION & TISSUE ENGINEERING: IMPLANT EVALUATION FOR CLINICAL APPLICATIONS / C. Eder* - E. Falkner - M. Mickel - M. Ogon



- P101 NEW ALGINATE-POLYETHERSULFONE MICROCAPSULES – A METHOD OF PREPARATION / D. Lewinska* - A. Chwojnowski - A. Werynski
- P102 TWO KINDS OF CELL SHEETS / J. Kim* - W. Kong - S. Seo
- P103 EVIDENCE OF PRESENCE OF ANGIOGENIC FACTORS IN ADULT FAT THYMUS FROM ISCHEMIC CARDIOMYOPATHY PATIENTS. / J. Salas* - R. El Bekay - M. Macias - M. Montiel - E. Jimenez - J. Gutierrez - F. Tinahones
- P104 IMPLANTATION OF ENCAPSULATED IN A HOLLOW FIBER MEMBRANE ESCHERICHIA COLI GFP INTO MICE / L. H. Granicka - J. Zolnierowicz - A. Weryński* - J. Kawiak
- P105 IMPACT OF PLATELETS CONCENTRATE AND KERATINOCYTE SUSPENSION ON WOUND HEALING - A PROSPECTIVE RANDOMIZED TRIAL / S. Guerid* - W. Raffoul - D. Hayoz - M. Berger - M. Benathan
- P106 A NOVEL ANESTHETIC POLYMERIC MATERIAL FOR TEMPORAL BLOCKING OF NERVE CONDUCTION / Y. Nakayama* - A. Ishikawa - T. Kawada
- P107 ENGINEERED CARTILAGES GENETICALLY MODIFIED BY BACULOVIRUS AND CULTURED IN A ROTATING-SHAFT BIOREACTOR HEALS ENDOCHONDRAL DEFECTS IN RABBITS / Y. Hu* - H. Chen

CELLS & STIMULI

Chairpersons: N. Hofmann, M. Jaconi

- P116 CELL THERAPY-INDUCED REGIONAL CHANGES IN MYOCARDIAL FUNCTION REVEALED BY LONGITUDINAL STRAIN ANALYSIS / B. Nasseri* - M. Kucucka - M. Dandel - W. Ebell - R. Hetzer - C. Stamm
- P117 DOES THE APPLICATION OF ELECTRICAL MICROCURRENT HEAL HEART FAILURE BY DOWN REGULATION OF THE PRO-INFLAMMATORY CYTOKINES? FIRST PRE-CLINICAL IN VIVO RESULTS. / J. H. Mueller* - B. Kapeller - M. Hofmann - J. Holfeld - U. M. Losert - K. Macfelda
- P118 EPITHELIAL CELL ADHESION ON A NEW LAMININ-5 FUNCTIONALIZED POROUS TITANIUM MATERIAL / S. Werner - L. Kocgozlu* - O. Huck - B. Frisch - R. Elkaim - D. Vautier - J. Voegel - H. Tenenbaum
- P119 A COMPARISON OF BIOMECHANICAL AND MORPHOLOGICAL DIFFERENCES OF PORCINE NATIVE AND ACCELLULAR AORTIC AND PULMONARY VALVE - IMPLICATIONS FOR THE TISSUE ENGINEERED HEART VALVE / P. Wilczek* - Z. Malota - A. Baranska - B. Kubin - J. Nozyński - R. Przybylski - M. Zembala
- P120 DEVELOPMENT OF TACTILE MAPPING SYSTEM (TMS): MICROSCALE MAPPING OF ELASTICITY IN VASCULAR TISSUE / T. Oie* - Y. Murayama - T. Fukuda - C. Nagai - S. Omata - K. Kanda - Y. Nakayama
- P122 GROWTH AND ADIPOGENIC DIFFERENTIATION OF HUMAN MESENCHYMAL STEM CELLS IN ALGINATE MICROBEADS AND MACROPOROUS AGAROSE SPONGES / A. Y. Petrenko - Y. A. Petrenko* - A. I. Pravduk - L. G. Damshkalin - V. I. Lozinsky



COMPUTER MODELLING AND ROBOTICS I

Chairperson: P. Verdonck, A. F. Garcia

- P123 A CLOSED LOOP NUMERICAL CIRCULATORY MODEL. USE AS A SUPPORT TO CLINICAL DECISION / G. Ferrari* - M. Kozarski - C. De Lazzari - Y. Gu - A. Di Molfetta - K. Zieliński - K. Górczyska - K. J. Palko - G. Rakhorst - M. Darowski
- P124 ULTRASOUND ECHO CONTRAST AGENT AS TRACER FOR VASCULAR FLOW / G. D'Avenio* - K. Matthys - M. Grigioni
- P125 ULTRAFILTRATION EFFICIENCY FOR PERITONEAL DIALYSIS FLUIDS / M. Galach* - J. Waniewski - P. Freida - A. Werynski - B. Lindholm
- P126 CFD SIMULATION OF OXYGEN TRANSFER IN HOLLOW FIBER OXYGENATORS / M. Hormes* - A. Kashefi - R. Borchardt - T. Schmitz-Rode - U. Steinseifer
- P127 NUMERICAL EXPRESSION OF HYDRATION STATUS BY MULTIFREQUENCY BIOELECTRICAL IMPEDANCE ANALYSIS: A PILOT STUDY / S. Byun* - W. S. Yang - S. B. Kim - S. K. Park - S. K. Lee - J. S. Park - J. W. Chang
- P128 IN-VITRO EXPERIMENTAL EVALUATION OF FLOW PERFORMANCE OF THREE VENA CAVA FILTERS / Y. Qian* - J. Liu - Y. Liu - Z. Cao - M. Umezawa - S. Ariyama
- P129 THE COMPARISON OF TWO METHODS OF LEFT VENTRICULAR RECONSTRUCTIONS IN PATIENT WITH CONGESTIVE HEART FAILURE BY MEANS OF COMPUTER SIMULATIONS / Z. Malota* - R. Przybylski - Z. Nawrat - P. Kostka - T. Kukulski

KIDNEY BIOLOGICAL ASPECTS

Chairpersons: B. Stegmayr, M. Pruijm

- P137 BLOOD CELL ALTERATION OF RENAL PATIENTS CAN BE CORRELATED TO THE EXTENT OF RENAL DAMAGE BY MEANS OF LOW STRESS CREEP TESTS / D. Gabriele - R. Hackel - R. Bonofiglio - B. De Cindio - G. Catapano*
- P138 ADSORPTION OF INTERLEUKIN 8 BY POLYSULFONE MEMBRANE DIALYZER / H. Ogawa* - O. Oda
- P139 THE ANTI-IgE HEMOSORBENT IN THE COMPLEX TREATMENT OF PATIENTS WITH ATOPIC DERMATITIS. / I. M. Rovdo* - N. B. Poplavskaya - V. V. Kirkovsky
- P140 BIOLOGICAL ACTIVITY OF VON WILLEBRAND FACTOR RELATED TO DIFFERENT HEMODIALYSIS MEMBRANES / P. I. Dejanov* - B. V. Dejanova - A. A. Sikole - M. H. Polenakovic
- P141 HEMOSTASIS RELATED TO DIFFERENT HEMODIALYSIS MEMBRANES / P. I. Dejanov* - B. V. Dejanova - A. A. Sikole
- P142 DYNAMICS OF PROTEIN PERMEABILITY OF FILTER MEMBRANES DURING HEMOFILTRATION / W. Xie* - S. Abbas - H. Mann



KIDNEY – CLINICAL ASPECTS

Chairpersons: A. Sikole, D. Teta

- P151 TENDON RUPTURE OF THE LONG HEAD OF M. BICEPS (LHB) ASSOCIATED WITH AUTOMATED SPHYGMOMANOMETRY (ASM) ON DIALYSIS ? / B. Von Albertini* - J. Berger - N. Daroussos
- P152 RENAL INVOLVEMENT IN MYELOMA PATIENTS / L. A. Lozance* - K. Zafirovska - S. Bogdanovska - B. Gerasimovska Kitanovska - G. Severova Andreevska
- P153 EFFECTIVE REMOVAL OF URAEMIC SOLUTES BY DIFFERENT CONVECTIVE STRATEGIES: / A PROSPECTIVE TRIAL. / N. Meert - S. Eloot* - A. Dhondt - R. Vanholder
- P154 PREVALENCE OF HEPATITIS C VIRUS INFECTION IN PATIENTS ON RENAL REPLACEMENT THERAPY / P. Dzekova* - S. Pavleska - I. Busletic - L. Stamatov - S. Gulsen - S. Gelev - V. Amitov - L. Stojkovski - N. Ivanovski - M. Polenakovic - A. Sikole
- P155 INTERMITTENT VIREMIA OF HEPATITIS C VIRUS IN DIALYSIS PATIENTS / P. Dzekova* - V. Amitov - N. Stojcev - S. Gelev - G. Selim - L. Trajceska - S. Pavleska - I. Busletik - A. Asani - P. Dejanov - M. Polenakovic - A. Sikole
- P156 SKIN AUTOFLUORESCENCE, A MEASURE OF CUMULATIVE METABOLIC STRESS AND ADVANCED GLYCATION ENDPRODUCTS, VARIES BETWEEN DIALYSIS CENTERS / S. Arsov - N. Sundvall - I. Busletic - M. Koetsier - L. Lundberg - L. Trajcevska - A. J. Smit - W. van Oeveren - A. Sikole - B. Stegmayr - G. Rakhorst - R. Graaff*
- P157 WHICH CLOSED LUER LOCK ACCESS DEVICES ON CATHETER HUBS CAN BE SAFELY ENHANCED DURING HEMODIALYSIS? / S. Eloot* - Y. De Vos - R. Hombrouckx
- P158 CENTRAL VENOUS CATHETERS AS A VASCULAR ACCESS IN DIABETIC PATIENTS ON HEMODIALYSIS – ARE THAY SAFE VASCULAR ACCESS? / V. Gerasimovska* - A. Oncevski - P. Dejanov - B. Gerasimovska-Kitanovska

LIVER SUPPORT I

Chairpersons: I. M. Sauer, T. Berney

- P176 DUG-DRUG INTERACTION IN HUMAN LIVER CELLS / A. Acikgoez* - K. Nacibullah - A. Bader
- P177 METABOLISM OF DIAZEPAM IN PIG HEPATOCYTES / A. Acikgoez* - A. Bader
- P178 MATHEMATICAL MODEL OF OXYGEN TRANSFER RATE IN THE FIBRE-IN-FIBRE BIOARTIFICIAL LIVER (FIF- BAL) / A. H. Alnaqbi* - J. D. S. Gaylor
- P179 USE OF CO-CULTURE AND STEM CELL MEDIUM FOR IN VITRO OF HEPATIC DIFFERENTIATION OF HUMAN PRECURSOR LIVER CELLS IN A PERFUSED CULTURE SYSTEM / B. Zavan - A. Carraro* - M. Flaibani - C. Tetta - B. Herrera - S. Buttiglieri - U. Cillo - G. Abatangelo - N. Elvassore
- P180 MICRON-SIZED IRON OXIDE (MPIO) LABELLING OF PRIMARY HUMAN HEPATOCYTES FOR CELL DETECTION BY MRI / M. H. Morgul* - N. Raschzok - R. Schwartlander - N. Kammer - N. Billecke - M. Adonopoulou - K. Steinz - J. Pinkernelle - U. Teichgraber - I. M. Sauer
- P181 BIOLOGICAL AND NON-BIOLOGICAL ELIMINATION THERAPY OF ACUTE LIVER FAILURE. EXPERIMENTAL STUDY ON LARGE LABORATORY ANIMAL / M. Ryska* - E. Laszikova - T. Pantoflicek - O. Ryska - J. Prazak



MEDICAL IMPLANTS I

Chairpersons: G. Rakhorst, S. Karaca

- P187 CYTOKINE AND SUPERANTIGEN ADSORPTION BY NOVEL, ACTIVATED CARBON BEADS / C. A. Howell* - S. Sandeman - L. S. Webb - G. J. Phillips - S. V. Mikhalkovsky - S. Tennison - A. P. Rawlinson - S. P. Kozynchenko
- P188 ROLE OF INTERACTIVE HOME TELEHEALTH FOR EARLY AND PROTECTED DISCHARGE ONE DAY AFTER CAROTID ENDARTERECTOMY. / D. Mugnai* - B. Pane - G. Spinella - A. Robaldo - D. Palombo
- P189 USER INTERFACE FOR VIRTUAL OPERATING ROOM / K. Rohr* - Z. Nawrat - W. Dybka - P. Kostka - M. Kożak
- P190 EVALUATION OF CADMIUM TOXICITY ON RAT ORGANS AND INVESTIGATION OF ATC AS AN ORALLY DRUG IN TREATMENT OF CADMIUM TOXICITY / S. Tubafard* - S. Fatemi - B. Nadi
- P191 ARTIFICIAL ESOPHAGUS PROJECT / T. Yambe* - K. Imachi - Y. Shiraishi - G. Miyata - S. Satomi

TRANSPLANTATION I

Chairpersons: A. Buscaroli, L. Buhler

- P199 TERM PLACENTA HUMAN MESENCHYMAL STEM CELLS TREATED WITH BUTYRIC AND HYALURONIC ESTERS EXPRESS MARKERS FOR METANEPHRIC DIFFERENTIATION AND PROTECT AGAINST ISCHEMIA-REPERFUSION KIDNEY INJURY IN RATS / F. Bianchi* - G. La Manna - M. Tsivian - S. Cantoni - C. Cavallini - F. Neri - G. Pasquinelli - G. Cenacchi - M. L. Cappuccilli - M. P. Scolari - C. Ventura - S. Stefoni
- P200 MOLECULAR ADSORBENT RECIRCULATING SYSTEM VERSUS STANDARD MEDICAL THERAPY: EFFECTS ON CYTOKINES LEVELS. / G. Novelli* - M. Rossi - V. Morabito - F. Pugliese - S. Novelli - P. B. Berloco
- P201 SIMULATING CHANGES IN PH DURING INTERVERTEBRAL DISC DEGENERATION: INVESTIGATION OF A CRITICAL FACTOR IN STEM CELL BASED THERAPIES / K. Wuertz* - K. Godburn - J. C. Iatridis
- P202 STUDY OF STIMULATION INDICES IN MSC TEST DEPENDED ON TIME AFTER TRANSPLANTATION / M. Antosiak-Iwanska* - E. Godlewska - T. Orlowski
- P203 GOODPASTURE SYNDROME (GPS): A CASE REPORT / M. M. Milovanceva-Popovska* - L. Grcevska - S. Dzikova - V. Ristovska - A. Sikole
- P204 GRANULOCYTE COLONY STIMULATING FACTOR (G-CSF) USAGE IN TOXIC HEPATITIS CORRECTION / V. M. Zaporozhan - O. L. Kholodkova* - D. M. Pykhteyev - A. L. Shcherbatyuk - M. M. Perepelyuk - O. S. Toporova
- P205 MONITORING OF THE DIABETIC FOOT SYNDROME TREATMENT. THE FINAL TESTS OF THE TELEDIAFOS SYSTEM / P. Foltyński* - K. Migalska-Musial - P. Ladyzynski - J. Krzymien - G. Rosinski - J. M. Wojcicki
- P206 AN ESSENTIAL ROLE FOR DONOR BONE MARROW TRANSPLANTATION IN PROLONGING PIG-TO-RHESUS CORNEAL XENOGRAFTS SURVIVAL / Z. Pan* - L. Liu - Y. Jie - N. Wang - L. Wang



Friday, 5 September 2008

PLENARY SESSION

08:30 - 09:30

HEART

Room B

With the kind support of Novartis Pharma Schweiz

Chairpersons: L. von Segesser, Lausanne (SUI), A. Mazzucco, Verona (ITA), H. Bounameaux, Geneva (SUI)

Daniel Loisance, Crêteil (FRA)

Permanent artificial ventricles: the optimal therapy for end-stage cardiac patients?

Giuseppe Faggian, Verona (ITA)

Present and future of heart transplantation

Axel Haverich, Hannover (GER)

Ventricular assist devices - the biological solution

AFFILIATED SOCIETY SYMPOSIUM

10:00 - 11:00



SWISS TRANSPLANT SOCIETY

Current and Future Options for Transplantation

Room A

With the kind support of Wyeth Pharmaceuticals

Chairpersons: M. Pascual, Lausanne (SUI), L. Buhler, Geneva (SUI)

Michael Dickenmann, Basle (SUI)

Living donation in kidney transplantation

Markus Weber, Zurich (SUI)

Immunosuppression - state-of-the-art 2008

Leo Buhler, Geneva (SUI)

Update on xenotransplantation



JSAO

Highlights from the Japanese Society for Artificial Organs

Room B

Chairpersons: Y. Fukui, Tokyo (JPN), Y. Taenaka, Osaka (JPN)

Tomohiro Nishinaka, Kenji Yamazaki, Tokyo (JPN)

Mechanical circulatory support

Mitsuo Umezawa, Waseda (JPN)

Contribution of biomedical engineering

Keiichi Kanda, Kyoto (JPN)

New approach in tissue engineering

Yasuharu Ohgoe and Yasuhiro Fukui, Tokyo (JPN)

DLC (Diamond Like Carbon) coating technology for artificial organs

Friday, 5 September 2008



**ESB
Biomaterials for Soft Tissue Engineering**

Room C

Chairpersons: J. Kirkpatrick, Mainz (GER), R. Gurny, Geneva (SUI)

Dirk Grijpma, Enschede (NLD)

Flexible and elastic polymeric structures for cardiovascular tissue engineering

James Kirkpatrick, Mainz (GER)

Biomaterial interactions with human endothelial lineage cells for promoting angiogenesis

SPECIAL SYMPOSIA

11:00 - 12:00

WAA - ESFH II

Room A

Chairpersons: W. Ramlow, Rostock (GER), D. Falkenhagen, Krems (AUT)

Loic Guillevin, Paris (FRA)

Apheresis and ANCA associated vasculitis

Bernd Stegmayr, Umea (SWE)

World apheresis association registry: benefits and new approaches

Heinrich Prophet, Rostock (GER)

World apheresis association registry: data of LDL-apheresis and concepts of how to enable comparison with a control group

Volker Witt, Vienna (AUT)

World apheresis association registry: pediatric data. Are they totally different?

**HEART: From Heart Imaging to Destination
devoted to Willem J. Kolff and Ake Senning**

Room B

Chairpersons: P. Portner, Stanford (USA), J. Sierra, Geneva (SUI)

Thomas Schmitz-Rode, Aachen (GER)

Implantation of cardiovascular devices: significance and future role of image guidance

Marvin Slepian, Tucson (USA)

The SynCardia total artificial heart: present and future applications in the management of advanced heart failure

Georg Wieselthaler, Vienna (AUT)

Anticoagulation during heart support 2008: is there anything new?



Friday, 5 September 2008

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TISSUE ENGINEERING - Scaffold and Cell Assembly

Room C

Chairpersons: A. Bader, Leipzig (GER), V. Ronford, Boston (USA)

Gary Bowlin, Richmond (USA)

Bioresorbable vascular graft design and development

Suwani Jayasinghe, London (GBR)

Cell scaffolding

Nicolas L'Heureux, Novato (USA)

Sheet-based tissue engineering for vascular applications

SUPPORTED LUNCH SYMPOSIA

12:00 - 13:30

Percutaneous/apical aortic valve replacement

Room A

With the kind support of Edwards / Corevalve / Direct Flow Medical

Chairpersons: A. Kalangos, Geneva (SUI), M. Roffi, Geneva (SUI)

Stephan Windecker, Bern (SUI)

Percutaneous aortic valve replacement using a transfemoral approach

Friedrich Eckstein, Basle (SUI)

Percutaneous aortic valve replacement using a transapical approach

Hermann Reichenspurner, Hamburg (GER)

Catheter-based aortic valve replacement using the repositionable and retrievable direct flow device

Mid and long-term VAD - Today's Gold Standard

Room B

With the kind support of 4Competence / Thoratec / Levitronix

Chairpersons: A. Mazzucco, Verona (ITA), F. Mach, Geneva (SUI)

Stephen Westaby, Oxford (GBR)

Mid-term support with Levitronix

Giuseppe Faggian, Verona (ITA)

From post cardiotomy in acute heart failure to bridge to destination

O. Howard Frazier, Houston (USA)

Recovery following HeartMate II implantation

Friday, 5 September 2008

Lung Support

Room C

With the kind support of Novalung

Chairpersons: K. Mottaghy, Aachen (GER), W. Habre, Geneva (SUI)

K. Mottaghy, Aachen (GER)

Introduction

S. Uhlig, Aachen (GER)

Mechanisms of ventilator-induced lung injuries

M. Quintel, Göttingen (GER)

Extracorporeal long-term support of the lung

S. Rousseau, Berlin (GER)

Extracorporeal breathing pump support to wean patients from mechanical ventilation

A. Kilic, Berlin (GER)

Use of pulsatile ventricular assist device (Berlin Heart EXCOR®) and an interventional lung assist device (NovaLung®) in an animal model

Y. Yamamoto, Kagawa (JPN)

Experimental study of the regeneration pattern of canine tracheal cartilage

ORAL SESSIONS

13:30 - 15:00

Kidney I - Clinical Outcome

Room A

Chairpersons: H. Mann, Aachen (GER), M. Burnier, Lausanne (SUI)

Bernd G. Stegmayr, Umea (SWE)

J. Ptak - M. Blaha - W. Ramlow - A. Griskevicius - J. Audzijoniene - G. Liumentas - P. Molfettini - P. Centoni - V. Witt - J. Tomaz - C. Axelsson - G. Berlin - B. Wikström - K. Mokvist - B. Nilsson Sojka - R. Norda - M.

O37 World apheresis registry 2003-2007 data

Prayong Vachvanichsanong, Hat Yai (THA)

P. Dissaneewate

O38 Saving lives with peritoneal dialysis in potentially fatal acute renal failure following childhood wasp sting

Stefan Arsov, Groningen (NLD)

R. Graaff - A. M. Morariu - W. Van Oeveren - I. Busletti - L. Trajcevska - G. Selim -

A. Martinovska - A. Sikole - R. J. Ploeg - G. Rakhost

O39 Assessment of the risk for cardiovascular mortality and morbidity of hemodialysis patients



Friday, 5 September 2008

Colin A. Hutchison, Birmingham (GBR)

I. Meryon - N. Edwards - P. Hewins - A. Whitelegg - M. Drayson - P. Cockwell

O40 High cut-off haemodialysis lowers inflammatory status in chronic dialysis patients

Demetrios J. Kutsogiannis, Edmonton (CAN)

O41 A pilot randomized controlled trial of high-volume hemofiltration in rhabdomyolysis

Jadranka Buturovic-Ponikvar, Ljubljana (SLO)

A. Kandus - M. Malovrh - R. Ponikvar

O42 Long-term (≥ 30 years) renal replacement therapy (RRT) survivors in slovenia

Cardiac Assist Devices I

Room B

Chairpersons: H. Schima, Vienna (AUT), E. Khabiri, Geneva (SUI)

André Berthe, Berlin (GER)

D. Kondermann - C. Christensen - L. Goubergrits - U. Kertzscher - K. Affeld

O43 A blood pump flow visualization using a wall-piv technique

Benjamin T. Cooper, University Park (USA)

B. N. Roszelle - T. C. Long - S. Deutsch - K. B. Manning

O44 The influence of end-diastolic timing on the flow within a pulsatile pediatric ventricular assist device

Ikuro Fukuda, Hiorosaki, Aomori (JPN)

M. Minakawa - K. Daitoku - Y. Suzuki - T. Inamura - H. Yanaoka

O45 Hydrodynamic analysis of transventricular apical aortic cannulation

Marco Laumen, Aachen (GER)

T. Finocchiaro - T. Schmitz-Rode - R. Körfer - A. El. Banayosy - U. Steinseifer

O46 Geometry and flow optimization of the Aachen total artificial heart "ACCOR"

Francesco Moscato, Rende (ITA)

G. A. Danieli - H. Schima

O47 Hydro-dynamic identification of an axial flow ventricular assist device

Daniel Rodriguez-Martinez, Madrid (ESP)

R. Perez-Caballero - A. Heredero - B. Quintana - A. Gonzalez-Pinto - J. F. Del Cañizo

O48 Input compliant chamber improves the unloading of the native ventricle in pulsatile MCSS applications.

Various Medical Implants

Room C

Chairpersons: U.R. Kertscher, Berlin (GER), P. Frey, Lausanne (SUI)

Yun Luo, Sendai (JPN)

S. Amae - T. Yambe - Y. Zhang - Y. Shiraishi - H. Liu - T. Takagi - S. Nitta

O49 Long-term implantation of subcutaneously implantable artificial sphincters



Friday, 5 September 2008

Giuseppe Faggian, Verona, (ITA)

C. A. Chen-Scarabelli - M. Tessari - Z. Yuan - J. Di Rezze - E. Kuizon - G. M. Scarabelli - G. Spears - R. McCauley - L. Saravolatz - A. Mazzucco - T. M. Scarabelli
O50 Urocortin is released from ischemic, though viable, cardiac cells, before the occurrence of irreversible injury. Is a new clinical marker of sublethal cardiac ischemia be born?

Giuseppe Faggian, Verona (ITA)

C. A. Chen-Scarabelli - M. Tessari - Z. Yuan - J. Di Rezze - E. Kuizon - G. M. Scarabelli - G. Spears - R. McCauley - L. Saravolatz - A. Mazzucco - T. M. Scarabelli
O51 Mitochondrial relocation of PKC-E in urocortin-positive cardiac myocytes of patients undergoing on-pump cardiac surgery

Deling Kong, Tianjin (CHN)

Duan - Y. Wang - Y. Yu

O52 Polyethylenimine derivatives for targeted gene delivery

Gi-Beum Kim, Jeonju (KOR)

S. Jeon - M. Lee - M. Rahman - H. Park - S. Kim - M. Kim - C. Hong - J. Kim - H. Kang

O53 Nitric oxide in rat model of acute respiratory distress syndrome

Ulf Krueger, Berlin (GER)

H. H. Scholz

O54 Straight and flared stent grafts in venous anastomoses of arteriovenous access for hemodialysis

MODERATED POSTER SESSION II

15:00 - 16:00

See page 36

3rd floor

ORAL SESSIONS

16:00 - 17:30

Kidney II - Complications and Biologic Effects

Room A

Chairpersons: A. Buscaroli, Bologna (ITA), P. Saudan, Geneva (SUI)

Giovanni M. Frasca', Ancona (ITA)

R. Boggi - L. Cagnoli - M. D'Arezzo - P. Freddi - L. Bibiano - E. Bordoni - E. Guerrini - S. Bini - M. Fusaroli - M. Briganti - S. Oliva - O. Paci

O55 Effects of sequential convective therapy (SCT) based on relative blood volume (BV) changes on intra-dialytic hypotension episodes. A multicenter trial

Sunny Eloot, Gent (BEL)

W. van Biesen - A. Dhondt - R. Vanholder

O56 Solute removal when modifying only hemodialysis duration



Friday, 5 September 2008

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Deling Kong, Tianjiin (CHN)

S. Zhang - Y. Bai - Y. Yu

O57 Development of recombinant food grade lactic acid bacterium for removal of urea in treatment of renal failure

Bernd G. Stegmayr, Umea (SWE)

V. Deporta

O58 Reduction of NT-PROMP after hemodialysis

Robert A. Stolarek, Lodz (POL)

A. Pedzik - J. Fialkowska - M. Nowicki - D. Nowak - J. Rysz

O59 The magnitude of serum antioxidant capacity impairment during hemodialysis

Stephen R. Ash, Lafayette (USA)

J. Steczko - K. Sauer - D. E. Nivens - L. Brewer

O60 Bacterial eradication in existing microbial biofilms by ZURAGEN™
(methylene blue, citrate, antiseptic solution)

Cardiac Assist Devices II and Lung Support

Room B

Chairpersons: B. Meyns, Leuven (BEL), D. Morel, Geneva (SUI)

Yasuyuki Shiraishi, Sendai (JPN)

T. Yambe - R. Sakata - T. Sugai - M. Uematsu - Y. Park - Y. Saito - A. Baba -

M. Yoshizawa - K. Imachi - T. Fujimoto - M. Umezawa - D. Homma

O61 Functional examination of an artificial myocardium with shape memory alloy fibre in chronic animal experiment

Carlo Pellegrin, Pavia (ITA)

M. Viganò - F. Gazzoli - A. El Banayosy - R. Koerfer - A. Pavie - P. Leprince -

M. Glauber - E. Vitali - C. Russo - P. Del Sarto

O62 Initial results of the clinical trial with a new LVAD providing synchronous pulsatile flow

Michael Dandel, Berlin (GER)

Y. Weng - H. Siniawski - M. Pasic - H. Lehmkuhl - E. Potapov - C. Knosalla -

T. Krabatsch - R. Hetzer

O63 Predictability of outcome after weaning from left ventricular assist devices in patients with idiopathic dilated cardiomyopathy

Jef Geens, Leuven (BEL)

F. Rega - W. Drooghe - H. Bollen - B. Meyns

O64 Intermacs-classification is unable to predict survival in bridging to transplantation; less invasive vad-therapy may improve survival

Hadi Tabesh, Aachen (GER)

A. Kashefi - U. Steinseifer - T. Schmitz-Rode - K. Mottaghy

O65 Mean retention time (MRT): a new indicator optimizing oxygenator's design



Friday, 5 September 2008

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Karla Lehle, Regensburg (GER)

A. Philipp - A. Holzamer - O. Gleich - T. Mueller - T. Bein - C. Schmid

O66 Cellular accumulations on poly-methylpenten membranes decreased efficiency of extracorporeal membrane oxygenation

Bioartificial Tissue: Musculo Skeletal

Room C

Chairpersons: C. Legallais, Compiègne (FRA), J. Menetrey, Geneva (SUI)

Karsten R. Mewes, Düsseldorf (GER)

C. Wiegand - E. Hoch - A. Prießner - K. Reisinger - D. Eschrich - H. F. Merk - K. R. Schröder

O67 Expression of matrix metalloproteinases and xenobiotic metabolism-related enzymes in a full-thickness skin equivalent

Karsten Gavenis, Aachen (GER)

R. Mueller-Rath - S. Andereya - U. Schneider - B. Schmidt-Rohlfing

O68 BMP-7 loaded microspheres as a new delivery system for the cultivation of human chondrocytes in a collagen type-I gel: the common nude mouse model

Katherine A.T. Carvalho, Curitiba (BRA)

R. C. Cunha - E. N. Vialle - R. Osiecki - G. G. H. Moreira - R. B. Simeoni - J. C. Francisco - L. C. Guarita-Souza - L. Oliveira - L. Zocche - M. Olandoski

O69 Hematopoietic stem cells in acute spinal cord injury. Experimental in wistar rats

E. Bono, Wädenswil (SUI)

C. Mauth - S. Baumgartner - G. Paesold - N. Boos - U. Graf-Hausner

O70 Intervertebral disc augmentation - an alternative

Vinicius Marchiori-Silva, São Paulo (BRA)

S. W. Han - S. Novikoff - P. Semedo - R. L. Reis - V. Correlo - B. C. G. Lisboa - N. O. S. Camara

O71 Polyhydroxybutyrate (PHB) from sugar cane as biomaterial for bone tissue engineering using mesenchymal stem cells derived from human dental pulp.

Nicolas Mach, Geneva (SUI)

F. Schwenter - S. Zarei - P. Luy - P. Morel - P. Aebischer

O72 Development of a cell encapsulation approach for human anti-tumor immunotherapy

ESAO GENERAL ASSEMBLY

17:30 - 18:00

CONGRESS DINNER

19:00 - 23:00

At the "World Meteorological Organisation"



Moderated Poster Session II

Friday, 5 September 2008 – 15:00-16:00 – 3rd floor

BIO-ARTIFICIAL TISSUES II

Chairpersons: G. Catapano, I. Krejci

- P8 FUNCTION OF HINGED KNEE ENDOPROSTHESIS IN INCOMPLETE REMOVED PRIMARY MALIGNANT TUMORS IN DISTAL FEMUR. A REPORT OF THREE CASES. / A. Bohatyrewicz - P. Zietek - D. Kotrych* - M. Karaczun - L. Kolodziej
- P9 ARTHRITIS IN VITRO: JOINT CHONDROCYTES TRY TO DECIDE THE PROBLEM BY THEMSELVES / E. Karakine* - D. Barnewitz - M. Neumann - I. Wilke
- P10 BONE CEMENT ENGINEERING FOR THE INTERVENTIONAL OPEN MRI. / F. Wichlas* - R. Schilling - C. Seebauer - I. Papanikolaou - R. Pflugmacher - F. Streitparth - J. Pinkernelle - J. Rump - U. Teichgräber - H. J. Bail
- P11 ELECTROMAGNETIC EFFECTS DUE TO PRESENCE OF A METALIC PROSTHESIS IN HUMAN BODY / G. Pallotti* - A. Cattani - D. Cattani - F. Ortolani
- P12 PULP CAPPING WITH A SELF-ETCHING ADHESIVE SYSTEM: A RETROSPECTIVE STUDY / N. Rizcalla* - O. Alizadeh - R. Perroud - I. Krejci
- P13 CERVICAL COMPOSITE RESIN RESTORATIONS ON ADULT TEETH: AN EVALUATION OF THEIR MARGINAL BEHAVIOR UNDER SIMULATED ORAL CONDITIONS / T. Bortolotto* - W. Doudou - I. Krejci
- P14 INTERACTIONS BETWEEN TOOTH SUBSTRATE AND BIOMATERIALS: MICRO MORPHOLOGICAL EFFECTS OF SEVEN DENTIN CONDITIONERS ON DENTIN SURFACE. / T. Bortolotto* - A. H. Susin - I. Krejci

BIOMATERIALS II

Chairpersons: W. Schütt, B. Nottelet

- P23 NOVEL SCAFFOLDS FOR TISSUE ENGINEERING / D. Stamatialis* - B. Papenburg - J. de Boer - C. van Blitterswijk - M. Wessling
- P24 MULTI-LAYERED COMPLIANT SCAFFOLDS FOR REPRODUCING NATIVE VESSEL MECHANICS: DYNAMIC MECHANICAL CHARACTERIZATION / M. J. McClure - S. A. Sell - B. H. Walpeth - G. L. Bowlin*
- P25 FROM MODEL TISSUES TOWARDS FUNCTIONAL ORGANS / H. Mertsching* - J. Schanz - K. Linke - H. Martina - J. Michaelis - J. Hansmann
- P26 INHIBITION OF PLATELET ACTIVATION STRONGLY REDUCES GRANULOCYTE ADHESION AND ACTIVATION ON ACCELLULAR PORCINE HEART VALVE TISSUE IN VITRO / M. Stelzmüller* - M. Kasimir - F. Bastian - G. Kolroser - B. Dekan - E. Eichmair - P. Simon - G. Weigel
- P27 OSTEOGENIC DIFFERENTIATION OF MESENCHYMAL STEM CELLS ON NOVEL THREE-DIMENSIONAL PLLA/ALGINATE/GELATIN/NANO-HYDROXYAPATITE HYBRID SCAFFOLDS / S. Garshasbi* - Y. Mohammadi



- P28 ENDOTHELIALISATION OF DECELLULARIZED PORCINE ARTERIES / S. Roy* - P. Silacci - N. Stergiopoulos
- P29 FLEXIBLE SCAFFOLD - NEW OPPORTUNITIES / V. Zaporozhan* - O. Toporova - T. Gulko - O. Sukhorada - T. Ruban - D. Irodov - O. Kholodkova - V. Kordium

CARDIAC & LUNG SUPPORT / ANIMAL MODELS

- Chairpersons: U. Losert, K. Mottaghy
- P30 ELEVATION OF GAS EXCHANGE USING ARTIFICIAL BLOOD IN INTRAVACULAR LUNG ASSIST DEVICE / G. Kim* - S. Jeon - M. Lee - M. Rahman - H. Park - S. Kim - M. Kim - C. Hong - J. Kim - H. Kang
- P31 MANUFACTURE OF BLOOD SUBSTITUTE USING PERFLUOROCARBONE EMULSION AND HEMOSOME / G. Kim* - S. Jeon - M. Lee - M. Rahman - H. Park - S. Kim - M. Kim - C. Hong - J. Kim - H. Kang
- P32 MODEL TESTS OF THE NEW, ENDOTRACHEAL, CONE TUBES DECREASING AIRWAY RESISTANCE. / B. Stankiewicz - J. Glapinski - M. Darowski* - M. Rawicz - B. Woloszczuk-Gebicka - M. Guc - M. Michnikowski
- P33 THE NOVALUNG MEMBRANE AS A BRIDGE FOR LUNG TRANSPLANTATION FOR SELF VENTILATING PATIENTS. / W. R. Bartosik* - A. Soo - L. Nolke - J. F. Mc Carthy - J. J. Egan - A. E. Wood
- P33b THE ADDED COMPLIANCE METHOD AS A DIAGNOSTIC TOOL FOR THE LUNGS MECHANICS MEASUREMENTS / K. J. Palko* - M. Kozarski - M. Darowski
- P34 VALIDATED OVINE MODELS OF ISCHEMIC CHRONIC HEART FAILURE / J. Geens* - E. Verbeken - B. Meyns
- P35 LONG TIME RESULTS OF EXPERIMENTAL VALVE EQUIPPED BIOMECHANICAL HEARTS / N. W. Guldner* - P. Klapproth - C. Enzensberger - M. Großherr - M. Mahmoodi - R. Noel - H. Sievers
- P36 CARDIAC CONTRACTILITY INDEX DURING AXIAL FLOW LEFT VENTRICULAR ASSIST DEVICE SUPPORT USING LEFT VENTRICULAR PRESSURE RELATIONSHIP: A COMPUTER MODEL AND ANIMAL STUDY / P. Naiyanetr* - M. Vollkron - D. Zimpfer - S. Sandner - G. Wieselthaler - H. Schima
- P37 RESTORING ATRIAL KICK IN CHRONIC ATRIAL FIBRILLATION WITH ARTIFICIAL MUSCLES: PRELIMINARY ANIMAL RESULTS / P. Tozzi* - D. Hayoz - M. Nasratulla - L. K. Von Segesser

CARDIAC ASSIST DEVICE - CLINICAL II

- Chairpersons: Z. Nawrat, A. Panos
- P44 USE OF LEFT VENTRICULAR WEARABLE ASSIST DEVICES AS DESTINATION THERAPY / A. Forni* - G. Faggian - A. Mazzucco
- P45 EARLY EXPERIENCE WITH THE IMPLANTABLE HEARTMATE II LEFT VENTRICULAR ASSIST DEVICE / A. Kadner* - F. Eckstein - J. Schmidli - P. Mohacs - S. Jacob - T. Carrel
- P46 AN IATROGENIC ARTERIAL OCCLUSION WITH THROMBIN-BASED ARTERIOTOMY CLOSURE DEVICE (ANGIO-SEAL®) APPLICATION / E. Pektok* - M. Cikirkcioglu - A. Kalangos



- P47 IS THERE AN OPTIMAL CARDIOPULMONARY BYPASS REWARMING RATE FOR HYPOTHERMIA VICTIMS ? / M. Meyer* - E. Khabiri - N. Murith - D. Crausaz - G. Richard - R. Deschenaux - B. Nowicki - J. Reuse - P. Gasche - A. Kalangos - B. H. Walpath
- P48 VENTRICULAR ASSISTANCE FOR ACUTE AND CHRONIC HEART FAILURES: ANALYSIS THE RESULTS OF A CENTER ALONG WITH ANNUAL IMPLANTATION NUMBERS / M. Cikirkcioglu* - E. Pektok - P. O. Myers - M. Bicer - D. Vala - J. Sierra - P. Arostotelis - N. Murith - E. Khabiri - A. Kalangos

CARDIAC ASSIST DEVICE - TECHNICAL II

Chairpersons: U. Steinseiffer, C. Vachey

- P56 HYDRAULIC PERFORMANCE AND SUSPENSION SYSTEM FOR THE BIVACOR ROTARY BIVAD/TAH / D. L. Timms* - N. Greatrex - N. Kurita - J. Fraser
- P57 PRELIMINARY INVESTIGATIONS REGARDING THE IMAGE PROCESSING METHOD APPLICATION TO BLOOD VOLUME ESTIMATION IN PNEUMATICALLY CONTROLLED VAD / M. Gawlikowski* - D. Komorowski - R. Kustosz
- P58 DEVELOPMENT OF A NOVEL VENTRICULAR ASSIST DEVICE (VAD) / M. J. P. Swalen* - C. S. König - A. I. Sayma - A. W. Khir
- P59 DESIGN AND IMPLEMENTATION OF A MAGNETIC LEVITATION SYSTEM FOR A BIVENTRICULAR ASSIST DEVICE / N. A. Greatrex* - E. W. Palmer - N. Kurita - D. L. Timms
- P60 CELL-TYPE SPECIFIC EVALUATION OF THE BIOMATERIALS OF POLYURETHANES USED AS BASE MATERIAL FOR VENTRICULAR ASSIST DEVICES / P. Dryja* - T. Schmid - M. Stock - S. Schopka - C. Schmid - K. Lehle
- P61 INTEGRATING DATA, MODELS AND REASONING IN ADAPTIVE PATIENT DATA TELE-MONITORING. / P. Kostka* - Z. Nawrat
- P62 DIRECT DRIVE CONCEPT FOR THE AACHEN TOTAL ARTIFICIAL HEART / T. Finocchiaro* - R. Körfer - M. Lessmann - K. Hameyer - T. Schmitz-Rode - M. Laumen - U. Steinseifer
- P62b DEVELOPMENT AND COMBINATION OF TECHNOLOGIES FOR CARDIAC/PULMONARY SUPPORT SYSTEMS / Y. Taenaka*

CARDIAC STENTS

Chairpersons: M. Kutryk, P.-F. Keller

- P63 A NOVEL MULTI-LOADING ACCELERATED DURABILITY TEST SYSTEM FOR PERIPHERAL VASCULAR STENTS / K. Iwasaki* - S. Tubouchi - Y. Hama - A. Nishikohri - M. Umezu
- P64 A NOVEL WAY TO ASSESS THE MECHANICAL RESPONSE OF SELF-EXPANDING BRAIDED WIRE STENTS / M. De Beule* - B. Verhegge - M. Conti - P. Mortier - R. Van Impe - F. Auricchio - P. Verdonck
- P65 CERAMIC COATINGS FOR CARDIOVASCULAR STENTS / S. Mikhalovsky* - N. Chorna - A. Sudre - T. Modine - O. Lazarenko - L. Mikhalovska
- P66 DEVELOPMENT OF HIGH PERFORMANCE SELF-EXPANDABLE STENT GRAFT FOR OCCLUSION OF EXPERIMENTAL ANEURYSMS / S. Nishi* - H. Ishibashi-Ueda - Y. Okamoto - Y. Nakayama
- P67 OPTIMIZATION OF A MECHANICAL PROPERTY OF STENOTIC CAROTID ARTERY MODEL FOR IN VITRO PRACTICAL TEST OF STENTING / Y. Okamoto* - H. Yamaga - T. Tanaka - H. Kobashi - T. Terada - T. Itakura - K. Iwasaki - M. Umezu



CELL CULTURE II

Chairpersons: A. Bader, C. Gonelle

- P93 EFFECT OF ASCORBATE ON PROLIFERATION AND DIFFERENTIATION OF HUMAN UMBILICAL CORD CELLS FOR TISSUE ENGINEERING OF CARDIOVASCULAR STRUCTURES / C. Lueders* - N. Doehnert - N. Dehdashti - C. Stamm - R. Hetzer
- P94 VITABILITY OF CELLS ON COLLAGEN-HYDROXYAPATITE / E. A. Krylova*
- P95 HUMAN DEVELOPMENT PROCEEDINGS OF CO-CULTURED SKELETAL MUSCLE CELLS AND BONE MARROW MESENCHYMAL STEM CELLS FOR MYOCARDIAL REGENERATION / K. A. T. Carvalho* - R. B. Simeoni - J. C. Francisco - M. Olandoski - L. C. Guarita-Souza
- P96 CELL MODEL OF THE HUMAN AIRWAY EPITHELIUM / L. Wiszniewski* - S. Constant - S. Huang
- P97 ISOLATION AND CULTURE OF ADIPOSE TISSUE-DERIVED STROMAL CELLS FOR TISSUE ENGINEERING / A. Kinasiwicz - M. Gutowska* - A. Smietanka - B. Noszczyk - J. Kawiak
- P98 PRECISE CONTROLLING OF THE MORPHOLOGY IN NANOFIBROUS SCAFFOLDS / Y. Mohammadi* - A. Gazme - S. Garshasbi - V. Haddadi-Asl

CELL TRANSPLANTATION & TISSUE ENGINEERING II

Chairpersons: D. Kong, Y. Barrandon

- P108 SCANNING ELECTRON MICROSCOPY AND FOCUSED ION BEAM TECHNOLOGY ON CELL CULTURES FOR TISSUE ENGINEERING / A. Staedte - A. Hoess - A. Heilmann*
- P109 REGENERATIVE MEDICINE / A. Bader* - G. John - J. Ionita - W. Brehm - C. Weber
- P110 DEVELOPMENT OF A NEW CHEMICAL STERILIZATION METHOD FOR IMPLANTS / T. Fadil - A. Szentivanyi - W. Grober - B. Glasmacher*
- P111 OPTIMISATION OF THAWING PARAMETERS TO IMPROVE CRYOPRESERVATION OF CELLS AND TISSUE ENGINEERING PRODUCTS / I. Bernemann - N. Hofmann - B. Glasmacher*
- P112 FLOGISTIC AND BIOMATERIALS EFFECTS DETERMINATION OF DECELLULARIZED AND COMMERCIAL AVAILABLE AORTIC LEAFLETS AFTER IMPLANTATION IN A PERITONEAL EXPERIMENTAL RAT MODEL / A. Gandaglia - G. Torregrossa* - F. Naso - M. Spina - A. Gastaldello - L. Iop - S. Sartore - G. Gerosa
- P113 A COMPARISON OF BIOMECHANICAL PROPERTIES OF SYNTHETIC AND BIOLOGICAL PATH USED IN SURGICAL LEFT VENTRICLE RESTORATION – AN INFLUENCE ON THE HEMODYNAMICAL PROPERTIES. / P. Wilczek* - Z. Malota - A. Baranska - B. Kubin - J. Nozynski - R. Przybylski - M. Zembala
- P115 CARDIOPROTECTIVE AND REGENERATIVE EFFECTS OF CORONARY SINUS PRESSURE AND FLOW AUGMENTATION / S. Mina* - H. Kasahara - D. Milasinovic - W. Mohl
- P115b CONTROL OF REPETITIVE CONTRACTION OF CULTURED MUSCLE TUBE FOR MICRO ACTUATOR / S. Hashimoto* - S. Mochizuki - T. Fujisato - H. Tsutsui - H. Kobayashi - S. Uto - M. Yoshiura - K. Akazawa - M. Ohsuga - K. Tsujita - T. Kawai - K. Yamasaki - H. Kondo - T. Yamaoka - H. Otani - K. Yoshinaka



COMPUTER MODELLING AND ROBOTICS II

Chairpersons: P. Ladyzynski, U. Kertscher

- P130 A CLOSED LOOP MODELLING PLATFORM TO BE USED FOR NUMERICAL AND HYBRID (NUMERICAL-PHYSICAL) CIRCULATORY APPLICATIONS / G. Ferrari* - M. Kozarski - C. De Lazzari - A. Di Molfetta - K. Zielinski - K. Górczynska - K. Palko - M. Darowski
- P131 MAXIMUM TURBULENCE SHEAR STRESS VS. TURBULENT VISCOSITY STRESS IN 3D PIV / G. D'Avenio* - U. Morbiducci - C. Del Gaudio - C. Daniele - M. Grigioni
- P132 EFFECTS OF TAPER STRUCTURE OF DIALYZER JACKET ON DIALYSIS FLUID FLOW / K. Yamamoto* - N. Takizawa - M. Matsuda - T. Yakushiji - M. Fukuda - T. Miyasaka - K. Sakai
- P133 A MINIATURIZED WIRELESS SENSOR SYSTEM FOR BIOMEDICAL APPLICATIONS / M. Brandl* - K. Kellner - J. Grabner - G. Grabner
- P134 COMPUTATIONAL ANALYSIS OF PLATELET AGGREGATION IN A TAYLOR-COUETTE SYSTEM / M. Behbahani* - M. Behr - K. Mottaghay
- P135 A CEREBRAL ANEURYSM FLOW VISUALIZATION USING A NEW TECHNIQUE / S. Weber* - A. Berthe - D. Kondermann - J. Pöthke - L. Goubergrits - U. Kertzscher - K. Affeld
- P136 OUR NEIGHBOR - SEMI-ARTIFICIAL HUMAN. PHILOSOPHY AND PRACTICE. / Z. Nawrat*
- P136b OPTIMISATION OF THE TWO STAGE MEMBRANE SYSTEM OPERATION / A. Ciechanowska* - J. M. Wojcicki - S. Sabalinska - M. Gutowska - N. Zolek - P. Ladyzynski

KIDNEY - CARDIOVASCULAR COMPLICATIONS AND METABOLIC ASPECTS

Chairpersons: M. Polenakovic, P. Saudan

- P143 REGULAR COFFEE INGESTION AND SERUM CHOLESTEROL CONCENTRATION IN DIALYSIS PATIENTS / A. E. Grzegorzewska* - M. Mlot-Michalska
- P144 HEMOGLOBIN LEVEL AND ASSOCIATION OF AGE AND GENDER IN DIALYSIS PATIENTS TREATED WITH ERYTHROPOIETIN / A. R. Asani* - P. Dzekova - G. Selim - S. Gelev - V. Amitov - L. Trajceska - S. Pavleska - A. Sikole
- P145 CLINICAL FEATURES OF PATIENTS WITH CARDIORENAL SYNDROME STARTING DIALYSIS / F. Fabbian* - M. Bergami - L. Catizone
- P146 OBESITY, LEPTIN AND ESSENTIAL HYPERTENSION / G. Severova Andreevska* - B. Gerasimovska Kitanovska - L. Lozance - S. Bogdanovska - K. Zafirovska
- P147 PREDICTORS OF CARDIOVASCULAR MORTALITY IN HEMODYALYSIS PATIENTS: ANALYSIS AT 4 YEARS OF FOLLOW-UP / G. Selim* - O. Stojceva-Taneva - V. Amitov - N. Stojcev - S. Gelev - L. Trajcevska - P. Dzekova - I. Rambabova-Busletic - S. Pavleska - A. Sikole
- P148 SELECTED FACTORS ASSOCIATED WITH PLASMA VISSFATIN CONCENTRATION IN DIABETIC PATIENTS ON HEMODIALYSIS (HD) TREATMENT / L. Niepolski - L. Niepolski* - A. E. Grzegorzewska - M. Mlot-Michalska
- P149 DIABETIC PATIENTS ON MAINTENANCE HEMODIALYSIS – COUNTRY EXPIRIENCE / M. Polenakovic* - P. Dzekova - D. Georgiev - S. Pavleska - A. Sikole
- P150 SKIN AUTOFLUORESCENCE, A MEASURE OF CUMULATIVE METABOLIC STRESS AND ADVANCED GLYCATION END PRODUCTS, IS IMPROVED BY HEMODIALYSIS / N. Sundvall* - R. Graaff - L. D. I. Lundberg - G. Rakhorst - B. G. Stegmayr



KIDNEY – HIGH RISK TREATMENTS AND COMPLICATIONS

Chairpersons: Z. Massy, M. Burnier

- P159 DETERMINANTS OF UNCONTROLLED HYPERTENSION IN THE POPULATION OF REPUBLIC OF MACEDONIA / B. Gerasimovska Kitanovska* - K. Zafirovska - S. Bogdanovska - L. Lozance - G. Severova Andreevska
- P160 BLEEDING RISK IN HEMODIALYSIS PATIENTS ON ACENOCOUMAROL DIALYSED WITH ETHYLENE-VINYL-ALCOHOL DIALYSER AND LOW DOSE UNFRACTIONED HEPARIN / D. Hadjijannacos* - I. Koutis - M. Mouratidou - L. Kavallierou - D. Vlassopoulos
- P161 HIGHVOLUME HEMOFILTRATION (HVHF) IN CRITICAL PATIENTS WITH ACUTE RENAL FAILURE / G. Puma* - G. Scaparrotta - B. Polverino - E. Pierobon - M. De Giorgi - M. Meroni - G. Giron - A. D'Angelo
- P162 CLINICAL SAFETY OF NAFAMOSTAT MESILATE IN POSTOPERATIVE PATIENTS WITH HEMODIALYSIS / J. Y. Lee* - S. W. Byun - J. W. Chang - W. S. Yang - S. B. Kim - S. K. Park - S. K. Lee - J. S. Park
- P163 PARATHYROID HORMONE AND ERYTHROPOIETIN THERAPY / L. Trajceska - S. Gelev* - V. Amitov - G. Selim - S. Pavlevska - A. Sikole
- P164 CHANGES IN INDICATIONS FOR PLASMA EXCHANGE OVER THE LAST 26 YEARS: / A SINGLE CENTER EXPERIENCE / P. Kes* - N. Basic-Jukic - B. Brunetta-Gavranic - V. Furic-Cunko - I. Juric - Z. Mustapic - L. Bubic-Filipi - S. Glavas-Boras - Z. Puretic
- P165 IMPORTANCE OF THE K/DOQI GUIDELINE FOR BONE AND MINERAL METABOLISM ACHIEVEMENT AND ARTERIAL CALCIFICATION IN HEMODIALYSIS PATIENTS / S. Gelev* - G. Spasovski - Z. Trajkovski - V. Amitov - A. Sikole

KIDNEY – TECHNICAL ASPECTS

Chairpersons: U. Baurmeister, S. Bowry

- P167 ON USEFULNESS OF KINETIC MODELING FOR INVESTIGATIONS OF PERITONEAL TRANSPORT / A. Werynski* - M. Galach - B. Lindholm
- P168 EFFECT OF PULSATILE BLOOD FLOW ON MEMBRANE HYDRAULIC PERMEABILITY REDUCTION: COMPARISON WITH NON-PULSATILE FLOW / C. Mun* - K. Lee - S. Lee - B. Min - H. Kim - K. Lee
- P169 MECHANICAL INVESTIGATIONS ON ARTIFICIAL HEMODIALYSIS / G. Pallotti* - P. Pettazzoni - E. Caroli - L. Coli - S. Stefoni - M. Slawomirski - D. Liepsch
- P170 BICARBONATE AND UREA KINETICS MODELING DURING HEMODIALYSIS AND ONLINE POSTDILUTION HEMODIAFILTRATION / H. Morel* - M. Jaffrin - J. Vienken - C. Legallais
- P171 QUANTITATIVE ANALYSIS OF THE CONTRIBUTION OF PULSATILE FLOW TO ULTRAFILTRATION / K. M. Lim* - J. Y. Park - J. C. Lee - J. C. Kim - B. G. Min - E. T. Kang - E. B. Shim
- P172 PULSE PUSH/PULL HEMODIALYSIS; A NEW DIALYSIS MODALITY / K. Lee* - C. Mun - S. Lee - Y. Won - B. Min



- P173 INTERMITTENT PERITONEAL RESTING COULD BE BENEFICIAL FOR PERITONEAL MEMBRANE (PM) RECOVERY / L. P. Stojkovski* - Z. Antova - A. Oncevski - A. Sikole
- P174 IMPACT OF HYALURONAN ON THE TRANSPERITONEAL GLUCOSE, ICODEXTRIN AND ALBUMIN TRANSPORT – COMPARATIVE STUDIES IN VITRO / T. Grzelak* - B. Szary - K. Czyzewska
- P175 SONOLOGICAL EVALUATION OF VASCULAR ACCESSES FOR HEMODIALYSIS WITH A PARAMETER OF TIME-WISE CHANGES IN FREQUENCY OF VASCULAR SOUNDS / T. Agishi* - M. M. A. Akamatsu - T. T. S. Sato - N. N. K. Kawashima - K. K. O. Omi

LIVER SUPPORT II

Chairpersons: D. Falkenhagen, J.-B. Buchs

- P182 ENCAPSULATION OF HEPATIC CELLS IN ALGINATE BEADS FOR FLUIDIZED BED BIOARTIFICIAL LIVER. STUDIES ON CHITOSAN MEMBRANE / A. Kinasiewicz* - A. Gautier - A. Smietanka - C. Legallais - A. Weryński
- P183 PROTECTION AGAINST HYPOTHERMIC-INDUCED CELL INJURY IN CULTURES OF PRIMARY HUMAN HEPATOCYTES / D. P. Modest* - M. Adonopoulou - N. Billecke - R. Schindler - I. M. Sauer
- P184 GENOMICS OF RAT HEPATOCYTES IN MEMBRANE BIOREACTORS / S. Pavlica* - A. Piscioneri - F. Peinemann - P. Gloeckner - P. Favia - L. Debartolo - A. Bader
- P185 WORKING-OUT OF INTRACORPORATED BIOARTIFICIAL LIVER SUPPORT UNIT / M. U. Shagidulin* - N. A. Onishchenko - M. E. Krasheninnikov - I. M. Iljinsky - N. P. Mogeko - D. N. Livak - E. A. Nemets - V. I. Sevastjanov - V. I. Shumakov†
- P186 MANY-SIDED POTENTIAL OF FETAL LIVER CELL TRANSPLANTATION / A. Y. Petrenko - Y. A. Petrenko* - N. N. Moiseeva - B. J. Fuller - G. A. Kovalev - O. Ochenashko

MEDICAL IMPLANTS II

Chairpersons: N. L'Heureux, A. Rungatscher

- P193 CROSSLINKED STAR VECTOR AS A HIGH-PERFORMANCE GENE TRANSFER EFFICIENCY / A. Borovkov* - Z. Yue-Min - Y. Nemoto - Y. Nakayama
- P194 THIRD SPACE PHENOMENON IN CRITICALLY ILL PATIENTS / B. A. Zikria* - M. Al-Sawwaf - F. Egel - L. Ahmed - A. Adu - A. Cooper
- P195 SURGICAL GLUE : IS IT REALLY ADHESIVE ? / B. R. M. Perrin* - M. Dupeux - M. Vergnat - C. Huber - L. K. von Segesser
- P196 HEMORHEOLOGICAL CHANGES IN ANIMAL EXPERIMENTS / R. Plasenzotti*
- P197 INNOVATIVE TEST SYSTEMS FOR SCREENING AND IDENTIFICATION OF POTENTIAL THERAPEUTIC DRUGS / C. Wiesner - M. Pflüger - J. Kopecky - D. Stys - H. Hundsberger - W. Schütt*
- P198 OPTIMAL MOLECULAR WEIGHT IN STAR VECTOR BY FRACTIONATION / Y. Nemoto* - Y. Zhou

TRANSPLANTATION II

Chairpersons: H. Leuvenink, Ph. Morel

- P207 ACUTE LIVER FAILURE : MOLECULAR ADSORBENT RECYCLING SYSTEM AS PREDICTIVA CRITERIA OF SURVIVAL? / G. Novelli* - M. Rossi - V. Morabito - F. Pugliese - A. Bussotti - P. B. Berloco
- P208 MOLECULAR ADSORBENT RECYCLING SYSTEM : MONITORING HEMODYNAMIC PARAMETERS IN PANTIENTS WITH PRIMARY NO FUNCTION / G. Novelli* - M. Rossi - L. Poli - V. Morabito - F. Pugliese - F. Ruberto - P. B. Berloco
- P209 CUSTODIOL VERSUS EUROCOLLINS: EFFECT ON EARLY GRAFT RECOVERY AFTER LIVING RENAL TRANSPLANTATION / I. Rambabova-Busljetic* - Z. M. Popov - J. G. Masin-Spasovska - G. N. Selim - G. B. Spasovski - S. K. Dohcev - A. Sikole - N. I. Ivanovski
- P210 PLASMA EXCHANGE FOR TREATMENT OF RECURRENT FOCAL SEGMENTAL GLOMERULOSCLEROSIS IN RENAL TRANSPLANT RECIPIENTS / P. Kes* - N. Basic-Jukic - B. Brunetta-Gavranic - I. Juric - V. Furic-Cunko - Z. Puretic - Z. Mustapic
- P211 MARS: REPLACEMENT THERAPY OF THE LIVER DETOXIFYING FUNCTION IN THE LIVER FAILURE R. Marangoni*
- P212 TOTAL JOINT RECONSTRUCTION OF THE ARTHRITIC ANKLE JOINT USING BIPOLAR SHELL OSTEOCHONDRAL ALLOGRAFT / S. Giannini* - R. Buda - F. Vannini - R. Bevoni - B. Grigolo - F. Di Caprio
- P213 MYCOBACTERIUM TUBERCULOSIS INFECTION IN SOLID ORGAN TRANSPLANT RECIPIENTS: EXPERIENCE FROM A SINGLE CENTRE IN CHINA / X. Zhang* - Y. Lv - W. Xue - L. Yu - C. Liu
- P214 ADEFOVIR DIPIVOXIL IN COMBINATION WITH LAMIVUDIN IN RENAL TRANSPLANTATION PATIENT WITH YMDD MUTAION / Y. K. Son* - J. K. Kim - Y. H. Shin - H. J. Oh - K. Hur
- P215 SUCCESSFUL CONVERSION TO SIROLIMUS IN CALCINEURIN INHIBITOR(CNI) TOXICITY INDUCED GRAFT FAILURE COMBINED WITH HEAVY PROTEINURIA / Y. K. Son* - J. K. Kim - Y. H. Shin - K. Hur - H. J. Oh



Saturday, 6 September 2008

PLENARY SESSION

08:30 - 09:30

KIDNEY

Room B

With the kind support of Novartis Pharma Schweiz

Chairpersons:

M. Polenakovic, Skopje (MKD), P.-Y. Martin, Geneva (SUI), H.J. Gurland, Augsburg (GER)

Raymond Vanholder, Ghent (BEL)

Best supportive therapy for end-stage renal disease

Jürg Steiger, Basle (SUI)

New aspects of renal transplantation

Edward Leonard, New York (USA)

New directions for treating ESRD: back to the future

WORKING GROUP SESSIONS

09:30 - 11:00

EUTOX

Room A

Chairpersons: R. Vanholder, Ghent (BEL), B. Stegmayr, Umea (SWE)

Griet Glorieux, Ghent (BEL)

New insights in the toxicity of protein bound molecules

Ziad Massy, Amiens (FRA)

Vascular calcification and CVD in CKD

Joachim Jankowski, Berlin (GER)

Metabolomic research and CKD

HEART I

Room D

Chairpersons: J. del Canizo, Madrid (ESP), G. Wieselthaler, Vienna (AUT)

J. Mueller, K. Graichen, P. Nuesser

Options for shear stress reduction in rotary blood pumps

B. Vodermayer, T. Schmid., W. Schiller, A. Welz, D. Liepsch, G. Hirzinger

The Completely Implantable DLR-VAD: in vivo and in vitro results

S. Rinaldi, S. Sauri

BestBeat VAD: preliminary results of the ongoing clinical study as bridge to transplant and plans for upcoming study on heart recovery

E. Shima, H. Bergmeister, G. Wieselthaler

Ongoing projects in Vienna

U. Kertzscher

Method to investigate the flow in the vicinity of the wall in bloodpumps

K. Affeld

Plate-plate shearing device to shear and simultaneously observe platelets

U. Steinseifer

Ongoing Projects at the HIA: an update



Saturday, 6 September 2008

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ORAL SESSIONS

09:30 - 11:00

Angiogenesis in Cardiovascular Implants

Room B

Chairpersons: G. Steinhoff, Rostock (GER), M. Jaconi, Geneva (SUI)

Taiji Watanabe, Kyoto (JPN)

K. Kanda - M. Yamanami - H. Yaku - Y. Nakayama

O73 Biotubes designed for large animals : auto-implantation to the carotid artery of the beagle dogs

Claudia M. Haller, Bern (SUI)

G. Fortunato - T. P. Carrel - H. T. Tevaearai - M. N. Giraud

O74 Custom design of microenvironment for cardiac tissue engineering

Keiichi Kanda, Kyoto (JPN) -

O. Sakai - T. Watanabe - M. Yamanami - H. Yaku - Y. Nakayama

O75 Successful endoluminal implantation of small diameter autologous tissue-covered stents "biocovered stents" to the animals: rapid tissue regeneration in vivo.

Christian Grasl, Vienna (AUT)

H. Bergmeister - M. Stoiber - R. Plasenzotti - I. Walter - G. Weigel - H. Schima

O76 Mechanical properties and in vivo evaluation of electrospun small caliber vascular grafts

Juan C. Chachques, Paris (FRA)

J. C. Trainini - N. Lago - M. Cortes-Morichetti - O. Schussler - A. Carpentier

O77 Myocardial assistance by grafting a new upgraded bioartificial myocardium (magnum trial): clinical results at 2 years

Gustav Steinhoff, Rostock (GER)

Intramycocardial bone marrow stem cell therapy in cabg surgery for chronic ischemia

Computer Modelling

Room C

Chairpersons: P. Verdonck, Ghent (BEL), K. Affeld, Berlin (GER)

Masaki Akiyama, Tokyo (JPN)

T. Fujimoto - S. Nakano - Y. Takehana - M. Umezawa

O79 Miniature-sized sensor for measuring pressure distribution in artificial organs

Takanobu Yagi, Tokyo (JPN) - H. Sudo - Y. Akimoto - M. Umezawa

O80 Microfluidic analysis of erythrocyte deformation for studying flow-induced hemolysis

Malgorzata Debowska, Warsaw (POL)

J. Waniewski - B. Lindholm

O81 Adequacy indices for dialysis in acute renal failure: kinetic modeling



Saturday, 6 September 2008

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Dieter Liepsch, München (GER)

D. Hänggi - M. Stock - T. Schmid - H. Steiger

O82 Visualization of basic flow pattern in a subarachnoid hemorrhage model with piv-measurement system

Catrin Bludszuweit-Philipp, Rostock (GER)

M. Buske - S. Kuehne

O83 Numerical prediction of thrombus formation and growth in medical devices

Torsten Linde, Aachen (GER)

T. Kaufmann - E. Cuenca-Navalon - C. Schmitz - T. Schmitz-Rode - U. Steinseifer

O84 Transient flow field simulation through a mechanical trileaflet heart valve prosthesis

ORAL SESSIONS

11:30 - 13:00

Kidney III - Coagulation and Vascular Access

Room A

Chairpersons : A. Sikole, Skopje (MKD), B. von Albertini, Lausanne (SUI)

Beat von Albertini, Lausanne (SUI)

Access blood flow & dialysis efficiency

Luca E. Bernardi, Como (ITA)

M. Varasani - S. Mangano - S. Brenna - D. Martinelli - M. D'Amico - D. Pogliani - G. Bonforte

O86 Hemodiafiltration and hemolysis

Jens Hartmann, Krems (AUT)

K. Strobl - U. Fichtinger - C. Schildboeck - D. Kern - D. Falkenhagen

O87 In vitro citrate clearance in dialysis

Stephen R. Ash, Lafayette (USA)

K. Brown - A. Asif - A. S. Yevzlin - A. L. Samaha

O88 Self-centering central venous catheter for dialysis (CENTROS™), initial clinical results

Saad Abdel-Sayed, Lausanne (SUI)

J. Favre - S. Taub - K. Von Segesser

O89 A dual lumen venous catheter for optimised haemofiltration use

Patrick Saudan, Geneva (SUI)

S. Kissling - P. Triverio - V. Bourquin - P. Martin

O90 Complications associated with tunneled cuffed dialysis catheters



Saturday, 6 September 2008

Stem Cells in Bioengineering

Room B

Chairpersons: P. Ladyzynski, Warsaw (POL), D. Kong, Tianjin (CHN)

Norbert W. Guldner, Lübeck (GER)

C. Kruse - P. Klaproth - M. Mahmoodi - M. Großherr - R. Noel - H. Sievers

O91 Enabling bio-technologies for a glandular stem cell-cardio-myopexy

Clemens Fritsche, Berlin (GER)

C. Lüders - B. Nasseri - R. Hetzer - C. Stamm

O92 Pulmonary tissue engineering using dual-compartment polymer constructs with integrated vascular tree

Nan Ma, Rostock (GER)

W. Wang - W. Li - L. Ong - D. Furlani - R. Gaebel - M. Ugurlucan - C. Klopsch -

P. Lorenz - K. Lützow - A. Lendlein - G. Steinhoff

O93 Collagen and fibronectin substrates mediated local SDF-1 gene expression induces stem cells homing

Thomas Laumonier, Geneva (SUI)

S. Konig - P. Hoffmeyer - J. Menetrey

O94 Imaging of human myoblast transplant by bioluminescence using renilla-luciferase transgene expression

Christof Stamm, Berlin (GER)

B. Nasseri - S. Kim - C. Lüders - K. Kang - A. Kurtz - G. Steinhoff - R. Hetzer

O95 Are cord blood cells better than bone marrow cells for myocardial cell therapy and tissue engineering?

Jörn Bullerdiek, Hannover (GER)

H. Murua Escobar - A. Richter - M. Lübbing - I. Nolte

O96 Nuclear reprogramming of adipocytes by the high mobility group protein HMGA2

Computer Modelling and Robotics

Room C

Chairpersons: J. Wojcicki, Warsaw (POL), N. Stergiopoulos, Lausanne (SUI)

Giuseppe Faggian, Verona (ITA)

E. Lanzarone - F. Gelmini - A. Fumero - O. Alfieri - M. Tessari - T. Menon - M. Carini -

H. Suzuki - M. Costantino - R. Fumero

O97 Endothelial no release and vasodilatation under continuous or pulsatile CPB: modellistic study and clinical investigation

Ikuro Fukuda, Hiorosaki, Aomori (JPN)

M. Minakawa - T. Inamura - H. Yanaoka

O98 Hydrodynamics of arterial perfusion in extracorporeal circulation: from reality to virtual simulation

Toshinosuke Akutsu, Yokohama (JPN)

T. Suzuki

O99 In vitro dynamic piv flow field analyses of the mechanical bi-leaflet valves: influence of pulse waveform and working fluid viscosity



Saturday, 6 September 2008

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Bashir A. Zikria, New York (USA)

L. Ahmed - A. Adu - A. Cooper

O100 Behaviour modification and electric gastric stimulation

Stefan Mina, Wr. Neustadt (AUT)

M. Meindl - S. Mayer - A. Mayr

O101 Improving motor relearning efficacy by applying functional movements with a therapy robot

Zbigniew Nawrat, Zabrze (POL)

P. Kostka - W. Dybka - K. Rohr - Z. Malota

O102 Man-machine interface optimization. Steering console of polish cardiac surgery robot robin heart

WORKING GROUP SESSION

11:30 - 13:00

HEART II

Room D

Chairpersons: J. del Canizo, Madrid (ESP), G. Wieselthaler, Vienna (AUT)

B. Meyns

Current projects in Leuven

A. Pinto, M. Ruiz, J. Roda, R. Perez-Caballero

Mechanical circulatory support in a Spanish hospital

M. Cikirkcioglu, E. Pektok, J. Sierra, D. Vala, B.H. Walporth, A. Kalangos

Update on the adult and pediatric support programme at the University of Geneva

G. Rakhorst

Experimental and clinical data on pulsatile versus non-pulsatile cardio pulmonary bypass

R. Kustosz

The state of the art of clinical utilization of the Polish Pneumatic Cardiac Assist

System POLCAS and future prospects

K. Zielinski , M. Kozarski, G. Ferrari, K. Gorczynska, K. J. Palko, D. Bozewicz,

M. Darowski

First validation of the new hybrid circulatory model prototype: testing of parallel ventricular assistance (joint cooperative Italian-Polish project)

M. Morshuis

Third generation assist devices

CLOSING CEREMONY

13:00-14:00

Room B

B. Meyns, ESAO Incoming President 2008-2010

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C. Legallais

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