

46. JAHRESTAGUNG DER

29.11. – 01.12.2023

ÖSTERREICHISCHEN GESELLSCHAFT FÜR CHIRURGISCHE FORSCHUNG

Mittwoch, 29.11.2023

- 12:00 – 13:00 Vorstandssitzung
- 13:00 – 14:00 Mittagspause
- 14:00 – 14:15 Eröffnung
- 14:15 – 15:45 Symposium 1
Österreichische/Deutsche/Ungarische
Gesellschaft für Chirurgische Forschung
- 15:45 – 16:15 Pause
- 16:15 – 17:45 Presidential Session
 - 16:15 – 16:40 Keynote lecture 1
 - 16:40 – 16:55 Keynote lecture 2
- 18:00 – 18:45 Generalversammlung
- 19:00 – 21:00 Abendessen

Donnerstag, 30.11.2023

- 09:00 – 10:00 Symposium 2
Die 3R in der Chirurgischen Forschung
- 10:00 – 10:30 Pause
- 10:30 – 12:00 Symposium 3
Orthopädie/Rekonstruktive Chirurgie
- 12:00 – 12:30 Pause
- 12:30 – 14:00 Symposium 4
Kardiovaskulär
- 14:15 – 15:45 Symposium 5
Trauma & Regeneration
- 16:00 – 17:30 Symposium 6
Young Investigator Award
- 19:30 – 21:30 Get together & Abendessen
Verleihung des PhD Preises 2023
Verleihung der Young Investigator Awards

Freitag, 01.12.2023

- 08:30 – 10:00 Symposium 7
Onkologie/Viszeralchirurgie
- 10:00 – 10:30 Pause
- 11:00 – 12:30 Symposium 8
Transplantation/Immunologie
- 12:45 – 13:00 Zusammenfassung

Tagungspräsident

Ap.Prof. Attila Kiss, PhD, FESC
Medizinische Universität Wien
Zentrum für Biomed. Forschung
und Translationale Chirurgie
Wien



www.chirfor.at

ENDPROGRAMM

Veranstalter

**Österreichische Gesellschaft
für Chirurgische Forschung**
www.chirfor.at

Tagungsort

Hotel Pichlmayrgut, Schladming

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Hotelreservierung, Sponsoring

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Wissenschaftliche Leitung

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Medizinische Universität Wien
Zentrum für Biomed. Forschung und Translationale Chirurgie
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Anmeldung

Formular bitte ausgefüllt per e-mail an:
linda.partl@congressorganisation.at

Informationen zur Anreise per Auto, Bahn oder mit dem Flugzeug



Programm

Mittwoch, 29.11.2023

12:00 – 13:00 **Vorstandssitzung**
Chair: Attila Kiss, Bruno Podesser

13:00 – 14:00

Mittagspause

14:00 – 14:15 **Eröffnung**

14:15 – 15:45 **Symposium 1**

Österreichisch/Deutsch/Ungarische - Gesellschaft für Chir. Forschung

Welcome and Introduction - 3 Societies

Chair: Bruno Podesser, Attila Kiss, Felix Nagel, Peter Dungal

14:15 – 14:30 Hungarian Society for Surgical Research
Andrea Szabo
University of Szeged, Ungarn

14:30 – 14:45 German Society for Surgical Research
Matthias Laschke
Universität des Saarlandes, Deutschland

14:45 – 15:15 Keynote lecture 1
Trends and Perspectives in Molecular Imaging
Markus Mitterhauser
Medical University of Vienna, Österreich

15:45 – 16:15

Pause

16:15 – 17:45 **Presidential Session**

Chair: Bruno Podesser, Attila Kiss

16:15 – 16:40 Keynote lecture 2
Personalization of Devices, Implants and Surgical Procedures by 3D-Printing Technology
Francesco Moscato
Medical University of Vienna, Österreich

16:40 – 16:55 Keynote lecture 3
Extended subzero organ preservation using nature-inspired cryoprotectants
Gerald Brandacher
Medical University of Innsbruck, Österreich

18:00 – 18:45 **Generalversammlung**
Chair: Attila Kiss, Bruno Podesser

19:00 – 21:00

Abendessen

Donnerstag, 30.11.2023 09:00 – 10:00 Symposium 2

3R in der Chirurgischen Forschung

Chair: Roberto Plasenzotti, Birgit Reininger-Gutmann, Vladimir Bubalo

09:00 – 09:10 Austrian 3R Center

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09:10 – 09:22 „Reduction“ und „Refinement“ in Großtiermodellen

Birgitta Struve, Pia Rademann, Claudia Schubert-Quecke, Alexandra Simon

Uniklinik Köln, Experimentelle Medizin, Deutschland, Köln

09:22 – 09:34

The value of precision cut tissue slices as an accompanying model for machine perfusion research

Julia Hofmann¹, Andras T Meszaros¹, Marlene Puehringer¹, Sabrina Steinkellner¹, Aline-Sophie Holl¹, Verena Hackl¹, Thomas Resch¹, Christina Bogensperger¹, Franka Messner¹, Martin Hermann¹, Bettina Zelger², Hubert Schwelberger¹, Jakob Troppmair¹, Theresa Hautz¹, Stefan Schneeberger¹

¹organLife Organ Regeneration Center of Excellence and Daniel Swarovski Laboratory, Department of Visceral, Transplant and Thoracic Surgery, Medical University of Innsbruck;

²Department of Pathology, Medical University of Innsbruck

09:34 – 09:46

Invited Talk

Vladimir Bubalo

Medizinische Universität Graz, Österreich

Critical appraisal of 3R

Judith Raddloff

Medizinische Universität Wien, Österreich

10:00 – 10:30

Kaffeepause

10:30 – 12:00 Symposium 3 – Orthopedic / Reconstructive Surgery

Chair: Konstantin Bergmeister, David Lumenta, Manuel Maglione

10:30 – 10:42

Subclavius Muscle Resection for Subclavian Vein Decompression in Paget-Schroetter and McCleery Syndrome

Florian Jaklin¹, Hannes Platzgummer², Lukas Reissig³, Udo Maierhofer¹, Andreas Gohritz^{1,4}, Konstantin Bergmeister¹, Oskar Aszmann^{1,5}

¹Clinical Laboratory for Bionic Extremity Reconstruction, University Clinic for Plastic Reconstructive and Aesthetic Surgery, Medical University Vienna, Vienna, Austria;

²Department of Biomedical Imaging und Image-guided Therapy, Division of Neuroradiology and Musculoskeletal Radiology, Medical University Vienna, Vienna, Austria;

³Center for Anatomy and Cell Biology, Division of Anatomy, Medical University Vienna, Vienna, Austria;

⁴Department of Plastic, Reconstructive, Aesthetic Surgery and Hand Surgery, University Hospital Basel, Basel, Switzerland;

⁵University Clinic for Plastic Reconstructive and Aesthetic Surgery, Medical University, Vienna, Austria

10:42 – 10:54

Experimentelle Untersuchung sensibler Reinnervation von durch Hauttransplantat gedeckten Muskellappen

Udo Maierhofer¹, Christopher Festin¹, Florian J Jaklin¹, Klepetko Johanna¹, Roland Blumer³, Martin Schmoll², Konstantin D Bergmeister¹, Oskar C Aszmann¹

¹Klinische Labor für Bionische Extremitätenrekonstruktion; Univ. Klinik für Plastische, Rekonstruktive und Ästhetische Chirurgie, Medizinische Universität Wien;

²Zentrum für Medizinische Physik und Biomedizinische Technik, Medizinische Universität Wien;

³Zentrum für Anatomie und Zellbiologie, Medizinische Universität Wien

10:54 – 11:06	<p>Unravelling cervical and cardiac autonomic vagus nerve morphology across species: Implications for targeted vagus nerve stimulation in cardiac health <u>Bettina Kronsteiner</u>^{1,2}, Lydia Zopf⁴, Patrick Heimerl^{3,4,5}, Gunpreet Oberoi¹, Anne M. Kramer¹, Paul Slezak^{3,4}, Lukas Reissig¹, Roland Blumer¹, Wolfgang W. Weninger¹, Bruno K. Podesser^{1,2}, Attila Kiss^{1,2}, Francesco Moscato^{1,2,4}</p> <p>¹Medizinische Universität Wien, Österreich; ²Ludwig Boltzmann Institute for Cardiovascular Research, Vienna, Austria; ³AUVA Research Centre, Ludwig Boltzmann Institute for Experimental and Clinical Traumatology, Vienna, Austria; ⁴Cluster for Tissue Regeneration, Vienna, Austria; ⁵Karl Donath Laboratory for Hard Tissue and Biomaterial Research, University Dental Clinic Vienna, Vienna, Austria</p>
11:06 – 11:18	<p>Enhancing three FDA-approved nerve guidance conduits with hydrogel and spider silk: an experimental study Flavia Millesi¹, <u>Sebastian Rihl</u>¹, Sascha Mero², Maximilian Härtinger¹, Sarah Stadlmayr¹, Lorenz Semmler¹, Christine Radtke¹</p> <p>¹Universitätsklinik für Plastische, Rekonstruktive und Ästhetische Chirurgie, Medizinische Universität Wien, Österreich; ²Universitätsklinik für Urologie, Medizinische Universität Wien, Österreich</p>
11:18 – 11:30	<p>Modeling hepatic osteodystrophy in an in-vitro 3D Liver–Bone system daily exposure to diclofenac. <u>Romina Aspera-Werz</u>, Guanqiao Chen, Yuxuan Xin, Bianca Braun, Andreas Nüssler Siegfried Weller Institute for Trauma Research, BG Trauma Center, Eberhard Karls University Tübingen, Tübingen, Germany, Deutschland</p>
12:00 – 12:30	Mittagspause
12:30 – 14:00	<p>Symposium 4 – Cardiovascular Session Chair: Bernhard Winkler, Peter Pokreisz</p>
12:30 – 12:42	<p>Effect of different vascular graft materials on endothelialization using senescent endothelial cells at different inflammatory stages <u>Sophie J. Specht</u>^{1,2,3}, Sabrina Rohringer^{1,2,3}, Pia Hager^{1,2,3}, Christian Grasl^{1,2,4}, Katharina Ehrmann⁵, Heinrich Schima^{1,2,4}, Stefan Baudis⁵, Robert Liska⁵, Herbert Kiss⁶, Bruno K. Podesser^{1,2,3}, Helga Bergmeister^{1,2,3}</p> <p>¹Center for Biomedical Research and Translational Surgery, Medical University of Vienna, Vienna, Austria; ²Ludwig Boltzmann Institute for Cardiovascular Research, Vienna, Austria; ³Austrian Cluster for Tissue Regeneration, Vienna, Austria; ⁴Center for Medical Physics and Biomedical Engineering, Medical University of Vienna, Vienna, Austria; ⁵Institute of Applied Synthetic Chemistry, Technical University of Vienna, Vienna, Austria; ⁶Department of Obstetrics and Gynecology, Division of Obstetrics and Feto-Maternal Medicine, Medical University of Vienna, Vienna, Austria</p>
12:42 – 12:54	<p>Establishment of an in vitro bioreactor model to study the interaction of perivascular adipose tissue with vascular grafts <u>Anna-Maria Schmitt</u>^{1,2,3}, Sabrina Rohringer^{1,2,3}, Marvin Dötzlhofer^{1,2,3}, Pia Hager^{1,2,3}, Sophie J. Specht^{1,2,3}, Karl H. Schneider^{1,2,3}, Heinrich Schima^{1,2,4}, Christian Grasl^{1,2,4}, Martin Stoiber^{1,2,4}, Herbert Kiss⁴, Bruno K. Podesser^{1,2,3}, Helga Bergmeister^{1,2,3}</p> <p>¹Center for Biomedical Research and Translational Surgery, Medical University of Vienna, Vienna, Austria; ²Ludwig Boltzmann Institute for Cardiovascular Research, Vienna, Austria; ³Austrian Cluster for Tissue Regeneration, Vienna, Austria; ⁴Department of Obstetrics and Gynaecology, Division of Obstetrics and Feto-Maternal Medicine, Medical University of Vienna, Vienna, Austria</p>

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- 12:54 – 13:06 **Early Inhibition of Angiotensin Converting Enzyme after Myocardial Infarction Ameliorates Murine Cardiac Remodeling by Modulating the Expression of Extracellular Matrix Genes.**
Anna-Theres Stampfer¹, Lukas Weber^{1,2}, Maximilian DeZordo¹, Gülsüm Yilmaz-Lauber¹, Romy Steiner^{1,3}, Nina Pilat-Michalek^{1,3}, Petra Fichtinger⁴, Karin Zins⁴, Dietmar Abraham⁴, Viktoria Juhasz⁵, Dimitris Tsiantoulas⁵, Bruno K. Podesser¹, Attila Kiss¹, Peter Pokreisz¹
¹Center for Biomedical Research and Translational Surgery, Medical University of Vienna;
²Austrian Institute of Technology;
³Department of Cardiac Surgery, Medical University of Vienna;
⁴Center for Anatomy and Cell Biology, Medical University of Vienna;
⁵Department of Laboratory Medicine, Medical University of Vienna
-
- 13:06 – 13:18 **Lymphangiogenesis in Left Ventricular Hypertrophy-Induced Cardiac Remodeling**
Simge Baydar¹, Zsombor Oskay³, Lukas Weber¹, Anna Stampfer¹, Peter Pokreisz¹, Karin Zins², Dietmar Abraham², Bruno Podesser¹, Zoltan Jakus³, Attila Kiss¹
¹Ludwig Boltzmann Institute for Cardiovascular Research at the Center for Biomedical Research and Translational Surgery, Medical University of Vienna;
²Center for Anatomy and Cell Biology, Division of Cell and Developmental Biology, Medical University of Vienna;
³Department of Physiology, Semmelweis University School of Medicine, Budapest, Hungary
-
- 13:18 – 13:30 **5S-Study: Safe and Simple Single-Shot Pulmonary Vein Isolation with Pulsed Field Ablation using Sedation**
Matthias Ernst^{1,2}, Boris Schmidt², Stefano Bordignon², Shota Tohoku², Shaojie Chen², Fabrizio Bologna², Lukas Urbanek², Francesco Pansera², K. R. Julian Chun²
¹Medizinische Universität Wien, Österreich;
²Cardioangiologisches Centrum Bethanien Frankfurt, Deutschland
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- 13:30 – 13:42 **Characterisation of Metabolic Alterations in Cardiac Tissue and H9c2 Cells in a mouse model of breast cancer**
Eylem Acar¹, Leanne van der Werff¹, Simge Baydar¹, Seth Hallström¹, Karin Zins², Sai Nagender Sama³, Chiara Riganti⁴, Alessandra Ghigo⁴, Peter Pokreisz¹, Bruno K Podesser¹, Agnes Csiszar³, Attila Kiss¹
¹Ludwig Boltzmann Institute for Cardiovascular Research at the Center for Biomedical Research and Translational Surgery, Medical University of Vienna, Vienna 1090, Austria;
²Center for Anatomy and Cell Biology, Medical University of Vienna, Vienna 1090, Austria;
³Center for Cancer Research, Medical University of Vienna, Vienna 1090, Austria;
⁴Department of Molecular Biotechnology and Health Sciences, University of Torino, Torino 10126, Italy
-
- 13:42 – 13:54 **Tenascin-C a potential target for diabetic cardiomyopathy**
C. Dostal¹, Z. Arnold¹, I. Aykac¹, B. Váradi², B. Agg², P. Ferdinandy², A. Kiss¹, BK. Podesser¹
¹Center for Biomedical Research and Translational Surgery, Medical University of Vienna;
²Department of Pharmacology and Pharmacotherapy, Semmelweis University, Budapest
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14:15 – 15:45 Symposium 5 – Trauma & Regeneration

Chair: Peter Dungal, Karl H Schneider

- 14:15 – 14:27 **Development of highly bioactive human placenta ECM-based bioinks for 3D bioprinted cardiac tissue constructs**
Karl H Schneider^{1,2,5}, Marvin Dötzlhofer¹, Marjan Enayati^{1,2,5}, Sabrina Rohringer^{1,2,5}, Luis Pichelkastner¹, Vincent Fitzpatrick³, Peter Riess¹, Ursula Windberger¹, Herbert Kiss⁴, David Kaplan³, Bruno K Podesser^{1,2,5}, Helga Bergmeister^{1,2,5}
¹Zentrum für Biomedizinische Forschung und Translationale Chirurgie, Medizinische Universität Wien, Österreich;
²Ludwig Boltzmann Institut für Kardiovaskuläre Forschung, Wien, Österreich;
³Department of Biomedical Research, TUFTS University, Medford, MA, USA;
⁴Department of Obstetrics and Gynecology, Division of Obstetrics and Feto-Maternal Medicine, Medical University of Vienna, Austria;
⁵Austrian Cluster for Tissue Regeneration
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- 14:27 – 14:39 **Mechanostructure and anisotropy as a tool to support epicardial therapies in a 3D printed cardiac patch**
Marjan Enayati^{1,2}, Luis Pichelkastner¹, Karl Schneider^{1,2}, Christopher Riedmüller¹, Lukas Weber¹, Sabrina Rohringer^{1,2}, Marvin Dötzell¹, Martin Stoiber³, Heinrich Schima³, Bruno K. Podesser¹, Helga Bergmeister¹
¹Center for Biomedical Research, Medical University of Vienna and translational Surgery, Austria;
²Ludwig Boltzmann Institute for Cardiovascular Research;
³Center for Medical Physics and Biomedical Engineering, Medical University Vienna, Austria
-
- 14:39 – 14:51 **In-vitro assessment of ECM-coated cardiac patches: Improving biocompatibility and cellular acceptance**
Christopher Riedmüller¹, Marjan Enayati^{1,2}, Sabrina Rohringer¹, Karl Schneider¹, Lukas Weber¹, Luis Pichelkastner¹, Marvin Dötzlhofer¹, Bruno Podesser^{1,2}, Helga Bergmeister^{1,2}
¹Center for Biomedical Research and Translational Surgery, Medical University of Vienna, Austria;
²Ludwig Boltzmann Institute for Cardiovascular Research
-
- 14:51 – 15:03 **Immunomodulatory features of human repair Schwann cells and their impact on peripheral nerve regeneration**
Tamara Weiss^{1,2}, Jakob Berner^{1,3}, Helena Sorger¹, Victoria Brandel², Andreas Spittler⁷, Fikret Rifatbegovic¹, Max Kauer¹, Reinhard Windhager⁴, Alexander Dohnal¹, Peter F. Ambros¹, Inge M. Ambros¹, Kaan Boztug^{1,5}, Peter Steinberger⁶, Christine Radtke², Sabine Taschner-Mandl¹
¹St. Anna Children's Cancer Research Institute (CCRI), Vienna, Austria;
²Department of Plastic, Reconstructive and Aesthetic Surgery, Medical University of Vienna, Vienna, Austria;
³St. Anna Children's Hospital, Vienna, Austria;
⁴Department of Orthopedics and Trauma Surgery, Medical University of Vienna, Vienna Austria;
⁵Center for Molecular Medicine (CeMM), Vienna Austria;
⁶Institute of Immunology, Medical University of Vienna, Vienna Austria;
⁷Anna Spiegel Center of Translational Research, Vienna, Austria
-
- 15:03 – 15:15 **Development, characterization and safety of modern hemostats**
Paul Slezak, Raffael Reichsöllner, Miriam Zintl, Heinz Redl
Ludwig Boltzmann Institute for Traumatology, Österreich
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- 16:00 – 17:30 Symposium 6 – Young Investigator Award (in English)**
Chair: Andrea Szabó, Peter Pokreisz, Matthias Laschke, Gerald Brandacher, Christina Brostjan, Roberto Plasenzotti, Felix Nagel
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- 16:00 – 16:12 **The molecular mechanisms of early vascular graft healing are highly dependent on the graft material**
Sabrina Rohringer^{1,2,3}, Sophie Johanna Specht^{1,2,3}, Anna-Maria Schmitt^{1,2,3}, Christopher Riedmüller^{1,2,3}, Luis Kölbl¹, Johanna Wittig¹, Florian Schaible¹, Pia Hager¹, Johannes Oesterreicher⁶, Christian Grasl⁴, Katharina Ehrmann⁵, Stefan Baudis⁵, Robert Liska⁵, Wolfgang Holthoner⁶, Heinrich Schima⁴, Bruno Karl Podesser^{1,2,3}, Helga Bergmeister^{1,2,3}
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³Austrian Cluster for Tissue Regeneration, Österreich;
⁴Center for Medical Physics and Biomedical Engineering, Medizinische Universität Wien, Österreich;
⁵Institute of Applied Synthetic Chemistry, Technical University of Vienna, Österreich;
⁶Ludwig Boltzmann Institute for Traumatology, Österreich
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- 16:12 – 16:24 **Dapagliflozin improves hemodynamic recovery, energy levels and metabolism after cardioplegic arrest in mouse isolated working heart**
Johanna Reiner^{1,5}, Christopher Dostal¹, Daniel Spona¹, Laurenz Wolner¹, Patrick M. Pilz¹, Lukas Weber¹, Gülsüm Yilmaz¹, Anna Stampfer^{1,5}, Martina Godel^{2,3}, Chiara Rignati^{2,3}, Giulia Guerra^{2,4}, Alessandra Ghigo^{2,4}, Barbara Kapeller¹, Seth Hallström¹, Attila Kiss^{1,5}, Bruno K. Podesser^{1,5}
¹Center for Biomedical Research and Translational Surgery, Medical University of Vienna;
²Molecular Biotechnology Center “Guido Tarone”, University of Torino, Italy;
³Department of Oncology, University of Torino, Italy;
⁴Department of Molecular Biotechnology and Health Sciences, University of Torino, Torino, Italy;
⁵Ludwig Boltzmann Institute for Cardiovascular Research, Vienna
-
- 16:24 – 16:36 **Natural IgM recognizing oxidation-specific epitopes in abdominal aortic aneurysms**
Taras Afonyushkin^{*}1, Nahla Ibrahim^{*2}, Hubert Hayden², Annika Brandau², Johannes Klopff², Laura Goederle¹, Soreen Taqi¹, Wolf Eilenberg², Christoph Neumayer², Christoph Binder^{*1}, Christine Brostjan^{*2}
¹Dept. of Laboratory Medicine, Medical University of Vienna, Austria;
²Dept. of General Surgery, Div. of Vascular Surgery, Medical University of Vienna, Austria
-
- 16:36 – 16:48 **The effects of nutritional supplements in combination with CTx in treating CRCLM in rat model.**
Beatrice Lukenaite¹, Bettina Leber¹, Philipp Stiegler¹, Robert Sucher¹, Kestusis Strupas²
¹General, Visceral and Transplant Surgery, Department of Surgery, Medical University of Graz, Austria;
²Faculty of Medicine, Vilnius University, Lithuania
-
- 16:48 – 17:00 **Monocyte Subsets in Endocrine Therapy of Breast Cancer Patients with Cancer Vaccine**
Viktoria Knöbl¹, Lukas Maier¹, Stefan Grasl¹, Carmen Kratzer¹, Felix Winkler¹, Vanessa Eder¹, Hubert Hayden¹, Monika Sachet², Rudolf Oehler², Sophie Frantal³, Christian Fesl³, Karin Zehetner³, G Pfeiler^{3,4}, R Bartsch^{3,5}, F Fitzal^{2,3}, C Singer^{3,4}, Martin Filipits^{3,6,7}, Michael Gnant^{3,7}, Christine Brostjan¹
¹Dept. of General Surgery, Div. of Vascular Surgery, Medical University of Vienna, Austria;
²Dept. of General Surgery, Div. of Visceral Surgery and Comprehensive Cancer Center, Medical University of Vienna, Vienna, Austria;
³Austrian Breast & Colorectal Cancer Study Group (ABCSCG), Vienna, Austria;
⁴Department of Gynecology, Medical University of Vienna, Vienna, Austria;
⁵Department of Internal Medicine I, Division of Oncology, Medical University of Vienna, Austria;
⁶Center for Cancer Research, Medical University of Vienna, Vienna, Austria;
⁷Comprehensive Cancer Center, Medical University of Vienna, Vienna, Austria
-
- 17:00 – 17:12 **Humoral response to adjuvant autologous tumor cell vaccine for the treatment of renal cell carcinoma progression**
Romy Steiner¹, Esther Hellmann¹, Gerd Silberhumer², Nina Pilat^{1,3}
¹Center for Biomedical Research and Translational Surgery, Medical University of Vienna, Vienna, Austria;
²Department of General Surgery, Medical University of Vienna, Vienna, Austria;
³Department of Cardiac Surgery, Medical University of Vienna, Vienna, Austria
-
- 17:12 – 17:24 **Malassezia globosa as emerging Trigger for Pancreatic Oncogenesis**
Ruben Bellotti¹, Funda Agardan¹, Bernhard Texler¹, Günter Rambach², Georg Schäfer³, Gudrun Thalhammer-Thurner³, Dietmar Öfner¹, Katrin Watschinger⁴, Stefan Schneeberger¹, Cornelia Speth², Manuel Maglione¹
¹Department of Visceral, Transplantation and Thoracic Surgery, Tyrolean Cancer Research Institute (TKFI) Medical University of Innsbruck, 6020 Innsbruck, Austria;
²Institute of Hygiene and Medical Microbiology, Medical University of Innsbruck, 6020 Innsbruck, Austria;
³Department of Pathology, Medical University of Innsbruck, 6020 Innsbruck, Austria;
⁴Institute of Biological Chemistry, Biocenter, Medical University of Innsbruck, 6020 Innsbruck, Austria
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- 19:30 – 21:30** **Get together & Abendessen**
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Verleihung des PhD Preises 2023

Verleihung der Young Investigator Awards

Freitag, 01.12.2023

08:30 – 10:00 Symposium 7 – Oncology / Visceral Surgery

Chair: Emmanuel Ampofo, Manuel Maglione

- 08:30 – 08:42 Establishing a robust and sensitive PCR method to quantify *Malassezia* in DNA samples derived from patient FFPE tissue
Funda Agardan¹, Ruben Bellotti¹, Nadine Falbesoner², Günter Rambach², Cornelia Speth², Gudrun Thalhammer-Thurner³, Georg Schäfer³, Katrin Watschinger⁴, Dietmar Öfner-Velano¹, Manuel Maglione¹, Bernhard Texler¹
¹Department of Visceral, Transplantation and Thoracic Surgery and Tyrolean Cancer Research Institute (TKFI), Medical University of Innsbruck, Austria;
²Institute of Hygiene and Medical Microbiology, Medical University of Innsbruck, Austria;
³Department of Pathology, Medical University of Innsbruck, Austria.;
⁴Institute of Biological Chemistry, Medical University of Innsbruck, Austria
-
- 08:42 – 08:54 Effects of probiotic supplementation on chemotherapy induced intestinal mucositis in an experimental colorectal cancer liver metastasis rat model
Matas Jakubauskas^{1,2}, Lina Jakubauskiene^{1,2}, Bettina Leber¹, Angela Horvath³, Kestutis Strupas², Philipp Stiegler¹
¹General, Visceral and Transplant Surgery, Department of Surgery, Medical University of Graz, Graz, Austria;
²Faculty of Medicine, Vilnius University, Vilnius, Lithuania;
³Division of Gastroenterology and Hepatology, Medical University of Graz, Graz, Austria
-
- 08:54 – 09:06 Probiotic supplementation decreases tumor volume in a rat colorectal cancer liver metastasis model
Matas Jakubauskas^{1,2}, Lina Jakubauskiene^{1,2}, Bettina Leber², Angela Horvath³, Kestutis Strupas², Philipp Stiegler¹
¹General, Visceral and Transplant Surgery, Department of Surgery, Medical University of Graz, Graz, Austria;
²Faculty of Medicine, Vilnius University, Vilnius, Lithuania;
³Division of Gastroenterology and Hepatology, Medical University of Graz, Graz, Austria
-
- 09:06 – 09:18 Co-transplantation of pancreatic islets and microvascular fragments effectively restores normoglycemia in diabetic mice
Selina Wrublewsky, Andrea Weinzierl, Michael D Menger, Matthias W Laschke, Emmanuel Ampofo
Institute for Clinical and Experimental Surgery, Saarland University, Germany
-
- 09:18 – 09:30 Absent in melanoma (AIM)2 is crucially involved in the revascularization and endocrine function of transplanted pancreatic islets
Cedric Wilden, Selina Wrublewsky, Michael D. Menger, Matthias W. Laschke, Emmanuel Ampofo
Institute for Clinical & Experimental Surgery, Saarland University, 66421 Homburg/Saar, Germany
-
- 09:30 – 09:42 Deciphering the Influence of Breast Cancer on Immune Infiltration in the Heart using MMTV-PyMT Transgenic Mouse Model
Gülsüm Yilmaz Lauber¹, Romy Steiner², Sai Nagender Sama³, Peter Pokreisz¹, Nina Pilat², Gergely Szakacs³, Agnes Csiszar³, Bruno Podesser¹, Attila Kiss¹
¹Medical University of Vienna Center for Biomedical Research;
²Medical University of Vienna Department of General Surgery (Division of Visceral Surgery);
³Medical University of Vienna Center for Cancer Research

10:00 – 10:30

Pause

11:00 – 12:30 Symposium 8 – Transplantation / Immunology

Chair: Nina Pilat, Andras Meszaros

- 11:00 – 11:12 Hypothermic Preservation of Small Liver Biopsies for High-Resolution Respirometry
Alexander Kofler, Julia Hofmann, Madita L. Buch, Melanie Schartner, Theresa Hautz, Stefan Schneeberger, Andras T. Meszaros
Department of Visceral, Transplantation and Thoracic Surgery, organLife Laboratory and Daniel Swarovski Research Laboratory, Center of Operative Medicine, Medical University of Innsbruck, Austria

11:12 – 11:24	<p>Influence of Relaxin in an ischemia-reperfusion injury large animal model <u>Rūta Žulpaitė</u>^{1,4}, Povilas Miknevičius^{1,4}, Bettina Leber¹, Kathrin Eller², Iris Wiederstein-Grasser³, Kestutis Strupas⁴, Philipp Stiegler¹</p> <p>¹General, Visceral and Transplant Surgery, Department of Surgery, Medical University of Graz, Graz, Austria; ²Division of Nephrology, Department of Internal Medicine, Medical University of Graz, Graz, Austria; ³Core Facility Experimental Biomodels, Division of Biomedical Research, Medical University of Graz, Graz, Austria; ⁴Faculty of Medicine, Vilnius University, Vilnius, Lithuania</p>
11:24 – 11:36	<p>Influence of Relaxin in porcine kidney subnormothermic machine perfusion model <u>Rūta Žulpaitė</u>^{1,3}, Povilas Miknevičius^{1,3}, Bettina Leber¹, Kathrin Eller², Kestutis Strupas³, Philipp Stiegler¹</p> <p>¹General, Visceral and Transplant Surgery, Department of Surgery, Medical University of Graz, Graz, Austria; ²Division of Nephrology, Department of Internal Medicine, Medical University of Graz, Graz, Austria; ³Faculty of Medicine, Vilnius University, Vilnius, Lithuania</p>
11:36 – 11:48	<p>Effect of maintenance immunosuppressants and tetrahydrobiopterin on bone marrow derived macrophages <u>Bernhard Texler</u>¹, Susanne Ebner¹, Katharina Lackner¹, Ilaria Dorigatti², Jakob Troppmair¹, Stefan Schneeberger¹, Katrin Watschinger², Manuel Maglione¹</p> <p>¹Medical University of Innsbruck, Visceral, Transplant and Thoracic Surgery, Daniel Swarovski Research Laboratory, Innsbruck, Austria; ²Medical University of Innsbruck, Institute of Biological Chemistry, Innsbruck, Austria</p>
11:48 – 12:00	<p>The effect of hemolysis during normothermic machine perfusion of the kidney in RPTEC cells <u>Paula Kacerikova</u>, Marlene Puehringer, Verena Hackl, Theresa Hautz, Andras T Meszaros, Stefan Schneeberger, Julia Hofmann</p> <p>¹organLife Organ Regeneration Center of Excellence and Daniel Swarovski Laboratory, Department of Visceral, Transplant and Thoracic Surgery, Medical University of Innsbruck</p>
12:00 – 12:12	<p>Flavin mononucleotide as a mitochondrial biomarker in clinical hypothermic machine perfusion of the kidney <u>Paula van Appeldorn</u>, Silvia Gasteiger, Julia Hofmann, Magdalena Kött, Katharina Kinzner, Dietmar Öfner, Stefan Schneeberger, Andras Meszaros, Annemarie Weißenbacher</p> <p>Universitätsklinik für Visceral-, Transplantations- und Thoraxchirurgie, Österreich</p>
12:12 – 12:24	<p>Cytokine adsorption during subnormothermic liver perfusion potentially reduces cytokine levels and inflammation <u>Sabrina Stimmeder</u>¹, Bettina Leber¹, Lisa Rohrhofer¹, Jennifer Weber¹, Ariane Aigelsreiter², Robert Sucher¹, Philipp Stiegler¹</p> <p>¹General, Visceral and Transplant Surgery, Department of Surgery, Medical University of Graz, Austria; ²Diagnostic and Research Institute of Pathology, Medical University of Graz, Austria</p>
12:45 – 13:00	Zusammenfassung

