



ISEM 2018
Debrecen

14th Congress of the
International Society for
Experimental Microsurgery

23-25 August, 2018 | Debrecen, Hungary

Programme book



www.isem2018.org

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Speeding Symposium



High Fidelity AR/VR Simulators in gradual and specialist education

25 Aug, SAT
9:00-9:20 AM, Room B

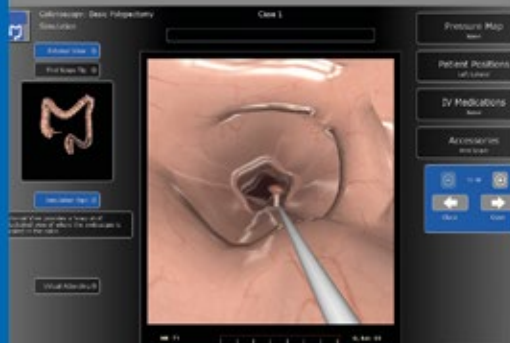
Laparoscopic, endoscopic and interventional radiology virtual- and augmented reality controlled high fidelity simulators' position in present educational model.

Presented by: Zoltán Vadászi

Venue:

ISEM 2018
Debrecen
Debrecen, Kölcsey Centre

Speeding Kft.
Ugocsa str. 5, 1126-H Budapest
(06-1) 214-8858,
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14th Congress of the
International Society for
Experimental Microsurgery

ISEM 2018
Debrecen

23-25 August, 2018

Debrecen, Hungary | Kölcsey Centre

www.convention.hu

Welcome Note

It is our privilege and special pleasure to welcome you to the 14th Congress of the International Society for Experimental Microsurgery (ISEM) held in Debrecen, Hungary on 23 - 25 August, 2018.

Privilege, because the worldwide activity of the ISEM (<http://myisem.org>) always inspires the microsurgical education and research. ISEM Congresses give opportunities to learn new methods, to re-warm existing cooperation and establish new ones, also enforcing the conversation between senior and junior clinicians and scientist who are engaged with microsurgery. Moreover, special pleasure, recalling the nice memories of the 2004 ISEM Congress that was held in Debrecen as well, and the exceptional coincidence with the celebration of the Centenary of the Faculty of Medicine, University of Debrecen at the beginning of the 2018/2019 academic year.

It is a pleasure and honour to welcome our lecturers, speakers and all the participants from Albania, Algeria, Brazil, Canada, China, Germany, Hungary, India, Italy, Japan, The Netherlands, Poland, Romania, Republic of Korea, Sweden, Switzerland, the UK and the USA.

During the Congress the Sun Lee Award ceremony will be held, and encouraging the young researchers, we are happy to announce again the Robert Zhong Award. The inaugural Lars Erik Gelin Award of the Scandinavian Microsurgery Academy will be given also during this Congress.

We hope that you will enjoy the Congress and your stay in Debrecen.
With the kindest regards,



Norbert Nemeth MD, PhD, DSc
President of the Congress
Past-president of the ISEM



Mihai Ionac MD, PhD
President of the ISEM

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Past Congresses

Rome, Italy (1992)

Kanazawa, Japan (1994)

Wuerzburg, Germany (1996)

London/Ontario, Canada (1998)

Catania, Italy (2000)

San Diego, USA (2002)

Debrecen, Hungary (2004)

Montreal, Canada (2006)

Shanghai, People's Republic of China (2008)

Sao Paulo, Brazil (2010)

Timisoara, Romania (2012)

Kyoto, Japan (2014)

Tianjin, China (2016)

Congress Venue

Kölcsey Centre

Address: Debrecen, Bethlen u., 4026 Hungary

Congress Office

Zsombor Papp

general manager

E-mail: zspapp@convention.hu

Kata Szaniszló

registration assistant

E-mail: kszaniszlo@convention.hu

Convention Budapest Ltd.

E-mail: convention@convention.hu

Phone: + 36 1 299 01 84, - 85, -86; **Fax:** + 36 1 299 01 87

Address: Besnyői utca 13., 1st floor. Budapest, H-1143, Hungary

Website: www.isem2018.org

General Information

Name Badges

All registered delegates and accompanying persons are required to wear a conference name badge when attending sessions and social events.

Official Language

The official language of the Congress is English. No translation will be provided.

Coffee Breaks

Refreshments and coffee will be served in the Trade Exhibition Area during breaks.

Certification of Attendance

The Certificate of Attendance will be available at the registration desk on the last day of the Conference

Insurance

The organizers do not accept any responsibility for injuries/damages or losses sustained by persons or personal belongings during the conference. Participants are strongly advised to carry appropriate travelling and health insurance.

Wifi

Free Wi-Fi access will be available by the congress center.

Registration

Registration Area

The registration desk is to be found on the ground level of the Congress Venue, Kölcsey Centre.

All Congress materials will be available at the registration desk at the congress venue during the conference.

Registration fee for participants includes: name badge, congress bag, access to all scientific programs of Congress, program and abstract book, opening reception, lunches on Friday, Saturday, coffee and soft drink.

Registration fee for nurse, trainee, accompanying person: name badge, access to all scientific programs of Congress, opening reception, English speaking guided sight-seeing tour on Thursday.

Registration desk opening hours

Thursday, 23 August, 2018:	13.00 – 19.30
Friday, 24 August, 2018:	07.30 – 19.00
Saturday, 25 August, 2018:	08.30 – 13.00

Lectures, Abstracts

Technical Information for Oral Presentations

Authors with accepted free oral presentations (or invited lecturers) are kindly asked to bring the Microsoft PowerPoint slides, presentations on a USB flash drive to the congress venue. For uploading please look for the technician staff by the dedicated room latest by the break before the session.

How to Travel to Debrecen

By car

Hotel Lycium**** is located in the city center of Debrecen, right in the neighborhood of Déri Museum, within Kölcsey Center building complex. The main entrance of the hotel is accessible behind the museum, from the direction of Baltazár Dezső square.

GPS coordinates/ Hotel Lycium

N 47.534736°; E 21.621896°

Debrecen is located in the eastern region of Hungary, 230 km away from the capital, Budapest. As being the regional capital of Eastern Hungary, Debrecen is accessible from the nearby cities by car, by using motorway M3 and expressways 4, 33, 35, 47, 48 and 471.

By road, from the direction of Budapest direct access to Debrecen by using motorways M3 and M35 (respectively) to Füzesabony by using motorway M3, afterwards from Füzesabony to Debrecen by using by using road 4 to Debrecen, through Cegléd and Szolnok.

By train

By using InterCity lines departing from Budapest Western Railway Station each 60 minutes (by stop Budapest - Reptér), and also from Budapest Eastern Railway Station (with international connections) each 120 minutes.

Further information: www.mavcsport.hu, informacio@mav-start.hu

Tel.: +36 (1) 3 49 49 49; By using cellular network: +36 (20/30/70) 499 499

By plane

Debrecen Airport is the second international airport of Hungary, accessible by both tourists and business passengers. Debrecen International Airport is 10 minutes away from the city center by car. www.debrecenairport.com

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The Organizing Committee of the **14th Congress of the International Society for Experimental Microsurgery** would like to sincerely thank to the following sponsors and exhibitors for their support:

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Sun Lee Awardees

István Furka, MD, PhD, DSc (Debrecen, Hungary)



Born in 1935, in a pretty and lovely small town: Gyula, Hungary. Finished his study on medical faculty at University of Debrecen in 1959. Specialist in urology and specialist in medical laboratory diagnostics. C.Sc., Ph.D. (1969) and D.Sc. (1988) degrees of Hungarian Academy of Sciences.

Between 1986-2000 Head of Institute of Experimental Surgery, Medical and Health Science Center, University of Debrecen. Full Professor from 1986. Head of Microsurgical Education and Training Centre, Department of Operative Techniques and Surgical Research, Faculty of Medicine (2003-).

Professor Emeritus of the University of Debrecen (2005-).

Active participant of Hungarian and International Congresses in connection with surgery/microsurgery, as lecturer, chairman, organizer, officer or supervisor/project leader with more than 400 lectures and 300 scientific papers. Participant or leader at several national and international research and education grants.

His research activities include surgery, parenchymal organ surgery, spleen autotransplantation, microsurgery, laparoscopic surgery, as well as urology, suture materials, tissue adhesives, bioplasts and renal hypothermia. His major fields of interests focus on experimental surgery, microsurgery, organ preservation-transplantation, teaching programs for basic surgical techniques, microsurgery and laparoscopy.

He has been the member of the Hungarian Surgical Society (1960-); Hungarian Surgical Society - Experimental Surgical Section (1967-); Hungarian Urological Society (1963-); Eurosurgery; Hungarian Surgical Society – Surgical Endoscopy Section (1994-); ESSR - European Society for Surgical Research (1992-); Österreichische Gesellschaft für Chirurgische Forschung (1985-); Koranyi Society (1992-); One Day Surgical Society (1997-); Hungarian Wound-healing Society (1997-); ISEM - International Society for Experimental Microsurgery (1998-), Hungarian Laboratory Animal Science Association (2002-) and International Council of Hungarian Professors (2005-).

He served as a member of General Assemble of Hungarian Academy of Sciences (1999-2007), as a member of Doctor Committee of Hungarian Academy of Sciences (1998-2003), as Vice-President of Hungarian Surgical Endoscopic Society (1994-2000). Up to now he has been the President of University of Debrecen Committee

of Animal Welfare (1999-), the Hungarian Delegate of EuroSurgery, the Councillor of International Society for Experimental Microsurgery (2004-), the Vice-President of National Scientific Ethical Committee on Animal Experimentation (2002-), and the President of Animal Research Committee of Hungarian Academy of Sciences (2008-).

He was the member of the following editorial boards: Polymers in Medicine, Poland (1978-1986); Acta Chirurgica Hungarica (1995-2000); Hungarian Journal of Surgery - hung. (1995-2005); Endoscopy and Minimal Invasive Therapy - hung. (1998-2006). Up to now he has been the reviewer and member of the editorial board of the Journal of Investigative Surgery, USA (2003-), the Türkiye Klinikleri Journal of Medical Sciences, Turkey (2009-), the Turkish Journal of Surgery, Turkey (2017-) and the Journal of Surgical Techniques and Procedures, USA (2017-).

He has been awarded with numerous scientific awards, such as Honorary Member of Czecho-Slovakian Surgical Society (1990); Purkinje Silver Medal, Brno (1984); Ambrogioni Gold Medal, Milano, (1990); Klüh Prize, Nord-Rheine Westfalie, (1997); for „Hungarian Higher Education Medal” (1997); Széchenyi Professor Grant (2000-2003); Batthyány-Strattmann László Prize (2001); Pro Facultate Award (2001); Pro Universitate Medal (2001); for Hungarian Surgery Medal (2002); Petri Gábor Medal (2005); Kállai László Medal (2008); Knight’s Cross of the Order of Merit of the Republic of Hungary -civil division (2008); for One-day Surgery Medal (2009); Gold Diploma of Debrecen University - 50th anniversary (2009); Master Professor Gold Medal (2009); Veres János Medal (2011); 25 Years in English Education Program of Medical University in Debrecen - Gold Medal (2012); Hagymási József Medal (2013); Hatvani Award of Debrecen (2016); Sun Lee Award, USA (2018).

The Sun Lee Awardee Presentation:

TRIBUTE TO THE MEMORY OF PROFESSOR SUN LEE
(23 August, Thursday, 17:30 – 18:00, Room A)

Mihai Ionac, MD, PhD (Timisoara, Romania)



Mihai Ionac is professor of surgery at the Victor Babes University of Medicine and Pharmacy from Timisoara and head of the Clinic for Vascular Surgery and Reconstructive Microsurgery.

He is board certified in vascular and plastic surgery and he coordinates the first team of vascular surgeons that perform endovascular surgery in Romania (introducing for the first time in the country arterial and venous CDT, venous stenting, iliac endografts). He formed a multidisciplinary team integrating vascular (both open and endovascular) and plastic surgery techniques for the salvaging of

lower limbs with ischemic tissue loss and for the management of the DFU.

Dr. Ionac founded 1994 the Pius Branzu Center, an experimental facility for training in microsurgery, flap surgery and vascular surgery (www.pius-branzu-center). Following a training period in Germany he started 1998 an international training program in microsurgery and flap surgery on living tissue, that has been visited by more than 1000 surgeons from all over the world and is integrated in the European School of Reconstructive Microsurgery (www.rmes.es).

Dr. Ionac was one of the founders of the Romanian Society for Vascular Surgery, (currently serves as secretary general) and had a substantial contribution in implementing a curriculum for training in vascular surgery that is harmonized with the program proposed by UEMS Section and Board of Vascular Surgery (SBVS). Dr. Ionac is also chairman of the Committee of Registry of UEMS SBVS.

The Sun Lee Awardee Presentation:

THE MICROSURGERY TRAINING PROGRAM AT PIUS BRANZU CENTER IN TIMISOARA, ROMANIA. A 20 YEARS JOURNEY
(23 August, Thursday, 18:00 – 18:30, Room A)

Plenary Invited Lecturer

Robert M. Hoffman, PhD (San Diego, California)



Professor Robert M. Hoffman is a biologist from San Diego, Canada. He graduated in 1965 from the State University of New York. He got his PhD degree in 1971 in the Harvard University.

He started his career as the first who discovered a mutant in energy metabolism than he was the first to demonstrate altered DNA methylation in human cancer and in an oncogene. He is a pioneer of the field of cancer epigenetics, the field of cancer therapy. He developed the first clinically-relevant mouse models of human cancer and the first practical in vitro drug response assay for human

cancer patients to enable individualized cancer therapy. The discovering of the only known adult pluripotent stem cells also his merit such as the mechanism of chemotherapy-induced alopecia and the first bacteria that specifically target and can completely eradicate cancer. He developed the basis for fluorescence-guided cancer surgery. In 2016 in Tianjin, China, he received the “Sun Lee Award”, prestigious prize in the field of Experimental Microsurgery.

Other institutions where Professor Hoffman enriched his mind include:

1971-73 Harvard University, where he worked with the late Professor John R. Raper

1976-77 Moscow, where he could see the activity of Professor L.D. Bergelson in the Shemyakin Institute of Bioorganic Chemistry of the Academy of Sciences

1978 Israel, at the Weizmann Institute with Dr. Carol Prives

Professor Hoffman published almost 1000 scientific papers and book chapters and has made presentations at national and international meetings in Europe, America and Asia.

In 1983 he became Associate Professor and in 1990 Full Professor of Department of Pediatrics at later, in 1995 he become Full Professor of Department of Surgery at University of California where he still works. In the University of California, he was member of the Admissions Committee and the Electives Committee. In 2010 he became Honorary Professor of Shanghai Medical College at Fudan University, and in 2012 at Kanazawa University He also has been a great scientific mentor of surgical residents since 1994.

He is member of the Society for In Vitro Biology, the Society for In Vitro Biology American Association of Cancer Research, the American Society for Clinical Oncology, the Society of Surgical Oncology, the American Society for Cell Biology,

the Metastasis Research Society, the Japanese Cancer Association. He was the first American member of the Japanese Society of Clinical Oncology, the Japanese Metastasis Research Society, and the Chinese Society for Clinical Oncology. He is also member of the Japanese Society of Human Cell, the Preclinical Therapeutic Model Group of the European Organization for Research and Treatment of Cancer at the International Society for Stem Cell Research.

Invited Lecturer Presentation:

PATIENT-DERIVED ORTHOTOPIC XENOGRAPTS: BETTER MIMIC OF METASTASIS THAN SUBCUTANEOUS XENOGRAPTS

(23 August, Thursday, 18:30 – 19:00, Room A)

Keynote Speakers

Yelena Akelina, DVM, MS (New York, USA)



Yelena Akelina, DVM, MS is a Research Scientist and a Director/Instructor in Clinical Microsurgery at the Microsurgery Research and Training lab at the Department of Orthopaedic Surgery, Columbia University. She has been teaching microvascular surgery to different medical personnel from all over US and abroad since 1996.

Dr. Akelina completed her Doctrine of Veterinary Medicine from Moscow Veterinary Academy in 1987 and obtained her Master Science in Toxicology in 1991.

Dr. Akelina is one of the founders of IMSS (International Microsurgery Simulation Society) and an active member of many other domestic and international societies for the microsurgery such WSRM (World Society for Reconstructive Microsurgery), ASRM (American Society for Reconstructive Microsurgery), RAMSES (Robotic assisted microsurgery society), ISEM (International Society for Experimental Microsurgery).

The program she runs at Columbia University train microsurgery to more than 200 surgeons and researchers a year from many institutions form all over US and from more than from 60 countries.

Dr Akelina is also Principal Investigator for many microsurgical research projects and well-published in main peer-review journals.

The main goal of training program she directs is to teach surgeons to perform surgery on a very small (1mm diameters) vessels and nerves using microscopes so they can perform similar surgery on people and save lives.

Keynote Speaker Presentation:

STUDYING DIFFERENT CLINICALLY RELEVANT MICROSURGICAL PROBLEMS AS MY STUDENT'S RESEARCH

(24 August, Friday, 10:45 – 11:00, Room B)

Michael Axelsson, PhD (Gothenburg, Sweden)



Michael Axelsson, PhD was born in 1958. He got BSc degree in biology in 1984, PhD degree in zoophysiology in 1990.

Between 1990-1991, he had postdoctoral fellowship at Simon Fraser University. In 1991 he became Research Associate, in 1997 Research engineer, in 2000 Lecturer and from 2001 he has been Professor at the Department of Zoology.

The main funding for long term research projects is funded by the Swedish Science Research council since 2001.

Dr. Axelsson has published more than 160 papers in refereed journals, 21 reviews, 2 book chapters and 6 papers in non-refereed journals.

He has trained more than 10 PhD students, more than 40 master students and had been examiner for 5 graduate student thesis. He had more than 50 invited seminars.

Dr. Axelsson has received numerous prizes and honors for his teaching and pedagogic merits, such as the Faculty of Science pedagogic price in 2017 and the University of Göteborg “teachers team” pedagogic price in 1996. He has been responsible and course coordinator for more than 22 different university courses in physiology since 1991.

Dr. Axelsson has been working and responsible for some educational project, such as “Online Labs for distance education” (Funded by Science Faculty at Göteborg University) and Wallenberg Global Network Learning Project grant together with David Epel (PI) at Stanford University.

He was the instructor at Karolinska Institutets microsurgical course between 2012-2017. Up to now he has been the coordinator for the Scandinavian Microsurgery Academy from 2010 and the instructor at the Experimental Microsurgery course in Gothenburg from 2010.

Keynote Speaker Presentation:

MICROSURGERY FROM A COMPARATIVE BIOLOGY PERSPECTIVE
(25 August, Saturday, 9:20 – 9:40, Room B)

Francesco Boccardo, MD, PhD, FACS (Genoa, Italy)



Dr. Boccardo graduated in Medicine and Surgery at the University of Genoa in 1988 with honours. He completed Post-Graduate School in General Surgery and Trauma by the University of Genoa and got his PhD in Experimental Surgery and Microsurgery by the University of Pavia.

He has been the associate professor of surgery from December 2015. He has national qualification to Full Professor of Surgery. Currently he is the Professor of General Surgery in the University Degree Course in Medicine and Surgery and the Professor of Microsurgery in the Post-Graduate

School in General Surgery. He is the Fellow of the American College of Surgeons (FACS), 2016.

Visiting Professor by the University of Arizona College of Medicine, Department of Surgery, Tucson, AZ, USA, September 2004. Visiting Professor by Universidade Federal do Rio de Janeiro, Hospital Universitario Clementino Fraga Filho, October 2000. Honorary Member of Associação Brasileira de Médicos Linfologistas, Universidade Federal do Rio de Janeiro, Brasil, September 2005. Honorary Member of Czech Society of Lymphology.

He is the fellow of the following main Scientific Societies: International Society for Experimental Microsurgery, American College of Surgeons, International Society of Lymphology, European Society of Lymphology, Italian Society of Surgery.

Present offices:

- President of the European Society of Lymphology (ESL)
- President Elect of the International Society for Experimental Microsurgery (ISEM)
- Past-President of the International Society of Lymphology (ISL) and member of the Executive Committee of ISL.
- Associate Editor of the journal Lymphology.
- Associate Editor of the journal European Journal of Lymphology and Related Problems.
- Editor at Large of Annals of Plastic Surgery
- Member of the Editorial Board of the journal Microsurgery

Dr. Boccardo has been the author and co-author of over 200 scientific publications, chapters for 11 textbooks of general surgery, vascular surgery, lymphatic surgery and microsurgery. He has been invited speaker, chairman and president of over 150 national and international congresses, in most of which also member of the International Faculty and the Scientific Committee.

Keynote Speaker Presentation:

PRIMARY AND EARLY SECONDARY PREVENTION OF LYMPHEDEMA FOLLOWING AXILLARY AND GROIN LYMPH NODE DISSECTION
(25 August, Saturday, 9:40 – 10:00, Room A)

Corradino Campisi, MD, PhD, FACS (Genoa, Italy)



Professor Campisi graduated in Medicine and Surgery at the University School of Genoa (1973), with honours and completed specializations with honours in Vascular Surgery (Genoa, 1976), General Surgery (Genoa, 1981) and Emergency Surgery (Modena, 1986). He is a Full Professor of General Surgery at the University of Genoa. Professor Campisi is currently the Director of the Section & Research Center of Lymphatic Surgery, Lymphology, and Microsurgery - Operative Unit of General Surgery and Lymphatic Surgery, University Polyclinic Hospital San Martino, Genoa Italy and also the Director of the Postgraduate School of

Alimentary Tract Surgery, which is confederated with Pisa, Florence, and Siena.

Professor Campisi is the author of more than 650 scientific publications, 9 monographs and numerous chapters in textbooks. In his clinical capacity, Prof. Campisi has treated more than 4800 patients with lymphatic disorders using his “single-site” derivative / reconstructive lymphatic microsurgery techniques. The recent development of a lymph vessel sparing approach to liposuction has allowed the safe and effective treatment of advanced stages of lymphedema. In addition, Prof. Campisi is a world-renowned expert in the assessment and treatment of Chylous Disorders.

Keynote Speaker Presentation:

SINGLE-SITE MULTIPLE LYMPHATIC VENOUS ANASTOMOSIS (SS-MLVA) FOR THE STAGING-GUIDED PERIPHERAL LYMPHEDEMA TREATMENT AND BEST LONG-TERM CLINICAL OUTCOME

(25 August, Saturday, 9:00 – 9:20, Room A)

Corrado C. Campisi, MD, PhD (Genoa, Italy)



Dr. Campisi got his Medical Degree in 2008, at UCBM, Rome, University of Genoa, Italy. He has been Executive Master in Healthcare and Pharmaceutical Administration – EMPHA from 2009 (LUISS Business School). He completed Specialization Course in Surgery of Lymphatic Diseases and Microsurgery in 2009 at University of Genoa. Dr. Campisi specialized in Plastic, Reconstructive and Aesthetic Surgery Specialty in 2014 at University of Genoa, Italy. He got his International Master's Degree in Reconstructive Microsurgery in 2014, at UAB, Barcelona, Spain. He got his PhD degree in Experimental Surgery and Microsurgery in 2015 at

University of Pavia and University Master's Degree in Lymphatic Surgery and Microsurgery in 2015. Currently he works at Salus Hospital, GVM Care & Research, Reggio Emilia, Italy at Plastic, Reconstructive and Aesthetic Surgery, Department of Surgery and at Lymphatic Surgery and Microsurgery, Department of Surgery. He also works at ICLAS, GVM Care & Research, Rapallo, Genoa at Plastic, Reconstructive and Aesthetic Surgery, Department of Surgery and Lymphatic Surgery and Microsurgery, Department of Surgery. Dr. Campisi is the health director of Campisi & Partners in Genoa at Plastic, Reconstructive and Aesthetic Surgery, Lymphatic Surgery and Microsurgery, Dermatology and LASER Procedures and Vascular Medicine and Surgery.

Dr. Campisi has produced more than 60 scientific publications/chapters. He is actively involved in many International Scientific Committees in his filed including: Executive Committee Member of the International Society of Lymphology (ISL), and Councillor of the International Society for Experimental Microsurgery (ISEM). In the clinical sphere, he is well-known for his experience in the treatment of lymphatic disorders, particularly his role in the development of the 'lymph vessel sparing' procedure for liposuction in advanced cases of peripheral lymphedema, which is something that has been adopted by many international centers, including Harvard and Memorial Sloan Kettering Cancer Center in the US.

Keynote Speaker Presentation:

SEQUENTIAL SELECTIVE FIBRO-LIPO-LYMPH-ASPIRATION BY LYMPH VESSEL SPARING PROCEDURE (FLLA-LVSP) FOR THE EFFECTIVE TREATMENT OF ADVANCED STAGES OF PERIPHERAL LYMPHEDEMA
(25 August, Saturday, 9:20 – 9:40, Room A)

Antonio Di Cataldo, MD, PhD (Catania, Italy)



Professor Antonio Di Cataldo is a general surgeon from Catania, Italy. He graduated in 1976 from the University of Catania. He completed a general surgery residency in 1981 in the University of Catania.

In the first part of his career he was attracted by the world of experimental microsurgery and in 1984 attended the Experimental Laboratory of the University of San Diego, California, directed by Professor Sun Lee, the father of Microsurgery. Together with clinical activity, concentrated especially on digestive and colorectal surgery,

Professor Di Cataldo carried out an intense microsurgical activity, studying the pathophysiological alterations after portocaval shunt, the liver damage after ischemia-reperfusion injury, the immunological effects of splenectomy and the surgical alternatives to the removal of the spleen. This activity culminated in his election as President of the International Society for Experimental Microsurgery in 2000-2002. In 2006 in Montreal, Canada, he received the “Sun Lee Award”, prestigious prize in the field of Experimental Microsurgery. Other institutions where Professor Di Cataldo enriched his mind include Pittsburgh, where he attended the Department of Liver Transplant of Professor Starzl (1988); London, where he could see the activity of Professor Williamson in the Department of Surgery of the Hammersmith Hospital of the Royal Postgraduate Medical School (1995) and New York, at the Center for Liver Transplantation of the Columbia University, directed by Professor Emond (1998). Professor Di Cataldo published about 300 scientific papers and book chapters and has made presentations at national and international meetings in Europe, America and Asia. In 1993 he became Associate Professor of Digestive Surgery and in 2003 Full Professor of General Surgery at University of Catania, where he is chief of the division of Oncological Surgery. He has also served as vice dean of the Faculty of Medicine at Catania University in 2005-2008 and from 2012 to 2017 has been Director of the School of Specialization in Digestive Surgery. He is member of the Italian Society of Surgery and has been Councilor in 2014-2016. Professor Di Cataldo has been the Fellow of the American College of Surgeons from 2005, he became President of the Italy Chapter in 2011 and Italian Governor from 2013 to now. In these years Professor Di Cataldo followed the aim of strengthening the collaboration between ACS International Chapters, especially those in Europe, and ACS. Furthermore he has been very active in recruiting many young surgeons. He is also member of the International College of Surgeons and has been President of the Italian Section of ICS in 2014-2015.

Keynote Speaker Presentation:

PRESENT CONSIDERATIONS ABOUT THE ROLE OF MICROSURGERY IN GENERAL SURGERY

(24 August, Friday, 10:30 – 10:45, Room B)

Huifang Chen, MD, PhD (Montreal, Canada)



Huifang Chen got MD. degree in 1970 (1964 – 1970), MSc. degree in 1981, and PhD. degree in 1985 from Fudan University, promoted as Professor of Surgery in 2004 at the University of Montreal, Canada to now. He was invited as Visiting Professors in Soochow University from 2003 – 2009; Fudan University, 2005 – 2010; and Sun Yat-sen University in China, 2003 – 2006.

He has published 141 articles (One was published in *Nature* 415: 385, 2002) and 240 Abstracts in the international congresses. He published 3 books in the organ transplantation fields (“Experimental Organ Transplantation” in 2013; “Current Immunosuppressive Therapy in Organ Transplantation” in 2015; “Advances in Experimental Surgery” (Volume I & II in 2018); further books are in preparing to publish (“Nonhuman Primate Models in Preclinical Research” ...). He has trained 55 MSc, PhD, post-doctoral trainees, visiting scholars and summer students in past 25 years in the University of Montreal. He was the president of International Experimental Microsurgery Society from 2012 to 2014. He got the SUN Lee’s Award for the contribution in Experimental Microsurgery. He was keynote Speakers at 12th, 13th and 14th ISEM.

Keynote Speaker Presentation:

NONHUMAN PRIMATES IN PRECLINICAL STUDIES
(24 August, Friday, 8:00 – 8:20, Room A)

Alexandru Valentin Georgescu, MD, PhD
(Cluj-Napoca, Romania)



Professor in Plastic Surgery and Reconstructive Microsurgery Department, University of Medicine “Iuliu Hatieganu” Cluj-Napoca, Romania. He is Past General Secretary of the European Federation of Societies for Microsurgery (EFSM), Past President of the Romanian Society for Surgery of the Hand (RSSH), Past President of the Romanian Society for Reconstructive Microsurgery (RSRM), Former Member in the Council of World Society for Reconstructive Microsurgery (WSRM) and Former Member in the Scientific Committee of the European Association of Plastic Surgeons (EURAPS).

He has been honorary member of the following scientific societies: American Association for Hand Surgery, Italian Society of Microsurgery, Romanian Association of Plastic Surgeons, Hellenic Society for Reconstructive Microsurgery, Serbian Orthopaedic Trauma Association (SOTA), Serbian Society for Reconstructive Microsurgery. Professor Georgescu has been a member in 4 national societies and 20 international societies and has served as a member in the Editorial Board of 2 national and 9 international scientific journals. Faculty to many congresses and courses on Plastic Surgery, Hand Surgery and Microsurgery in Romania and abroad. Professor Georgescu has been Visiting Professor in various Universities. He has more than 200 scientific publications (books, chapters in books, journal papers).

Keynote Speaker Presentation:

PERFORATOR FLAPS: EXPERIMENTAL AND CLINICAL CONSIDERATIONS
(25 August, Saturday, 10:15 – 10:35, Room A)

Eiji Kobayashi, MD, PhD (Tokyo, Japan)



Dr. Eiji Kobayashi graduated in 1982 from Jichi Medical University and got PhD. degree in 1989 from Niigata University. He was promoted as a Professor & Director in 2001 at the Jichi Medical University and has been positioned as Project & Visiting Professors at Keio and Kyoto University to now. Prof. Kobayashi is the prominent surgeon specialized in liver transplant who has optimized microsurgical technique to live donor liver transplantation for over 20 years. Also he has pioneered to create one of the most effective tools for innovative medicine through maximizing world-first rat's gene-modifying technology. The

genetically modified rats he has developed have been effectively utilized at the state-of-the-art research institutes all over the world. With the motto in mind "Medical science has no boundaries, we centralize our efforts for suffering patients", Prof. Kobayashi has been doing co-researches with lots of top clinicians and researchers.

Keynote Speaker Presentation:

LIVER BUD TRANSPLANTATION IN RATS
(24 August, Friday, 9:10 – 9:30, Room A)

Wei Li, MD, PhD (Changchun, China)



Wei Li, MD, PhD, Tang Aoqing Distinguished Professor of Jilin University, Professor and Vice Chair of Department of Hepatobiliary-Pancreatic Surgery, China-Japan Union Hospital of Jilin University. Completed MD degree and clinical training and became a general surgeon in the Third Affiliated Hospital, Norman Bethune Medical School, Jilin University, Changchun, China in 1985. Completed Postdoc training and become a Faculty member at Thomas Starzl Transplantation Institute, University of Pittsburgh in 1994-2001, where established technically very challenging mouse liver, heart and kidney transplantation models and developed transplant immunology research.

She has been a faculty member and Director of Transplant research laboratory in the Division of Transplantation, Department of Surgery at the University of Washington in 2001-2009. Her research are focusing on the mechanism of organ transplant tolerance and rejection, including the role of dendritic cells, costimulatory molecules, and regulatory T cells prevention and treatment of liver ischemia reperfusion injury and cancer immunotherapy. Dr. Li has published more than 70 papers in peer reviewed journals such as *American Journal of Transplantation*, *Transplantation*, and *Journal of Immunology*. I am a PIs for 5 research grants from NSFC and Jilin Province. She also serves as reviewer or editor in several journals such as *WJGS*, etc. She is a councilor member in The International Society for Experimental Microsurgery, regular member in TTS and American Association of Immunology. She also serves as Member in several standing committee in Chinese Academic Association, including Liver Cancer Committee of China Doctor Association, Transplantation Immunology Branch of Chinese Society for Immunology, International Exchange and Promotive Association for Medical and Health Care, Jilin Medical Doctor Association of Organ Transplantation Branch, and Chinese Medical Doctor Association of Jilin Branch, etc .

Keynote Speaker Presentation:

PATIENT-DERIVED-HCC TUMOR MODEL IN MICE
(24 August, Friday, 16:10 – 16:30, Room A)

Edna F.S. Montero, MD, PhD (São Paulo, Brazil)



Graduated in Medicine at Federal University of Espírito Santo (1983), Residency in General Surgery - HCFMRP-USP (1984-1987), Internship at the Liver Unit - USP (1987-1991), PhD in Operative Techniques and Experimental Surgery by Unifesp -EPM (1996). She is currently a Lecturer in the General and Trauma Surgery Division of the Medical School of the University of São Paulo and responsible for the Laboratory of Surgical Physiopathology. She was coordinator of the Post Graduate Program in Surgical Clinics 2013-2017. She is a member of the Council of the Department of Surgery and member of the Ethics Committee in basic and clinical

research. Affiliated Professor and Physician of Escola Paulista de Medicina – Federal University of São Paulo, where she founded the League of Operative Technique and Experimental Surgery.

She develops research on ischemia and reperfusion / rejection of organs / chemical and physical modulation strategies and in Scientific Communication (Surgical area). In the Brazilian Society for the Development of Research in Surgery-SOBRADPEC is secretary of the Regional-São Paulo. She has been an Advisor to the International Society for Experimental Microsurgery (ISEM) since 1998, having taken over as Chairman for the 2010 - 2012 management, Sun Lee Award for her contribution to ISEM (2016). She is a member of the Brazilian Association of Organ Transplantation. She has been the Chief Editor of Acta Cirúrgica Brasileira since February 2015; Belongs to the Editorial Board of Scientific Journals: Journal of the Brazilian Medical Association - Associate Publisher of the Surgical Area; Brazilian Journal of Transplantation - Assistant Editor since 2014. She also works as a reviewer in different journals. Responsible for the disciplines at Post-Graduate Program: Fundamentals of Animal Experimentation in Surgery; Institutional Internationalization Process, Ethics in Research: from project preparation to post-publication.

Keynote Speaker Presentation:

N-ACETYLCYSTEINE ON IMMUNE RESPONSE OF FETAL INTESTINAL TRANSPLANTATION

(24 August, Friday, 15:30 – 15:50, Room B)

György Nádasy, MD, PhD (Budapest, Hungary)



Dr. Nádasy graduated as MD at Semmelweis University Budapest, Hungary (Summa cum Laude). He was scientific trainee between 1975-1979 at Clinical Experimental Research Department, Semmelweis University Budapest and between 1979-1981 at Cerebrovascular Research Center, Pennsylvania University, Philadelphia Pa, US. Between 1981- 2015 he was Assistant Professor, Associate Professor, Senior Associate Professor of Physiology, Experimental Research Department and 2nd Institute of Physiology, Semmelweis University Budapest, Hungary.

In 1994 he got his PhD degree in myogenic contraction. In 1998 he was a visiting scientist at New York Medical College, Department of Physiology. In 2010 he did his habilitation in vascular physiology, at Semmelweis University Budapest, Hungary. Up to now, he has been Senior Associate Professor of Physiology at Physiology Department Semmelweis University Budapest from 2015. Dr. Nádasy has been teaching medical physiology for medical, dental, pharmacological and engineering students and has been guiding scientific work of students both undergraduate and graduate. His major field of interest is vascular sciences in the broad sense (physiology, pathology, pharmacology, biomechanics, biochemistry, genetics, molecular biology). His important achievements focus in the field of mechanics of cerebral aneurysms, transient brain ischemia, vascular mechanics, resistance artery and venous physiology. Dr. Nádasy has been regular reviewer of international journals in the field. He has more than 30 years of experience in experimental microsurgery of blood vessels. He is the author of 108 international scientific papers with a cumulated impact factor of 176.5. His international citations (Scopus): 680.

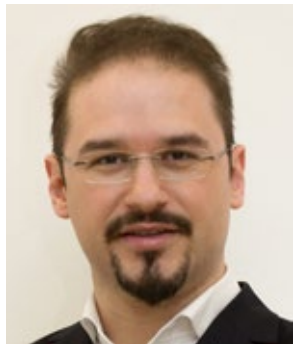
He was awarded with the National Award of Higher Education (1976), Schnell Medal of the Technical University Budapest (2015), Szechenyi Stipend (1998-2003), Award of the International Forum for Minisurgery of Varicose Veins (2015).

Keynote Speaker Presentation:

MICROSURGICAL PREPARATION OF INTRAMURAL CORONARY RESISTANCE ARTERIES FROM THE RAT AND MICE.

(24 August, Friday, 10:30 – 10:50, Room A)

Alexandru Nistor, MD, PhD (Timisoara, Romania)



Alexandru Nistor is a plastic and reconstructive surgeon from Timisoara, Romania. He graduated in 2006 from the University of Timisoara and got PhD degree in 2015.

Institutions where he made postgraduate studies: 2009 Centro Traumatologico Ortopedico (CTO), Department of Microsurgery, Orthopaedic Clinic, Torino (Italy); 2010-2012 Department of Hand Surgery, Ospedale Regionale di Locarno "La Carita", Ente Ospedaliero Cantonale (EOC) Locarno (Switzerland); 2012 BAZ County Teaching Hospital, Department of Traumatology Miskolc (Hungary);

2007-2013 Department of Reconstructive Microsurgery, Clinic of Vascular Surgery, University Emergency County Clinical Hospital "Pius Brnzeu" Timisoara (Romania).

Since 2013 he has been Training Program Coordinator for Reconstructive Microsurgery Program in Pius Brnzeu Center, Victor Babes University of Medicine and Pharmacy, Timisoara (Romania). Since 2015 he has been Educational Coordinator for the International Master's Degree Program in Reconstructive Microsurgery Reconstructive Microsurgery European School, Barcelona (Spain). Alexandru Nistor has been invited speaker of numerous national and international meetings all over the world, published more than 20 scientific papers and wrote a book chapter.

He has been the president of the Romanian Society for Reconstructive Microsurgery since 2017, was Board Councillor of the International Society for Experimental Microsurgery in 2014. He is member of the Plastic Surgery Research Council, European Plastic Surgery Research Council, European Microsurgical Research and Training Association and Romanian Society for Reconstructive Microsurgery.

Keynote Speaker Presentation:

MICROSURGICAL EDUCATION IN THE 21ST CENTURY – QUO VADIS?

(24 August, Friday, 13:00 – 13:10, Room B)

László Novák, MD, PhD (Debrecen, Hungary)



Laszlo Novák, MD, PhD, is associate professor at University of Debrecen, Clinical Centre, Department of Neurosurgery.

He was resident between 1988-1991 at Medical University of Debrecen, Department of Neurology and Psychiatry and between 1991-1995 at Medical University of Debrecen, Department of Neurosurgery. Meanwhile he had military service in 1989 at Central Hospital of Army, Department of Neurosurgery, Budapest. He worked as lecturer between 1995-2002 at Medical University of Debrecen, Department of Neurosurgery, between

2002-2008 as assistant professor and as associate professor at University of Debrecen, Medical and Health Sciences Centre.

Dr. Novák graduated (MD) in 1988 (summa cum laude). He specialized in neurology in 1992 and in neurosurgery in 1995. In 1999 he did European Examination of European Association of Neurosurgical Societies. He got his PhD degree in 2004 (summa cum laude) and did his habilitation in 2013 at University of Debrecen, Hungary. In 2018 he specialized in health care management (MSc). Dr. Novák is the president of the Hungarian Society of Neurooncology, board member of Hungarian Society of Neurosurgery, training committee member of European Association of Neurosurgical Societies and member of Hungarian Spine Society and European Society of Pediatric Neurosurgery. His reviewer activity includes European Journal of Paediatric Neurology, Journal of Neurology Neurosurgery and Psychiatry, Journal of Neurology, Neurology India and Vascular Health and Risk Management.

Keynote Speaker Presentation:

MICROSURGICAL APPROACH TO THE SKULL BASE TUMORS
(25 August, Saturday, 11:15 – 11:35, Room A)

Mihai Oltean, MD, PhD (Gothenburg, Sweden)



Dr. Mihai Oltean is Consultant and Associate Professor of Surgery at the Sahlgrenska Academy at the University of Gothenburg (Sweden).

He completed his medical studies in the year 2000 and obtained a research fellowship in experimental microsurgery in 2002. Since then he obtained a doctorate in medicine (2010) with a PhD-thesis on intestinal transplantation and completed a residency in General Surgery at Sahlgrenska University Hospital in Gothenburg.

He is active in both experimental and clinical research with ischemia-reperfusion injury in transplantation (kidney, liver, intestine), the immunobiology of brain death and rejection monitoring after clinical intestinal transplantation as main research interests. In addition to its clinical commitments, Dr. Oltean is a keen educator - he is one of the founders of the Scandinavian Microsurgery Academy, the only microsurgical training facility in Northern Europe. He is reviewer for all the major journals in transplantation and received several awards from the Transplantation Society. Dr. Oltean is board member of Intestinal Rehabilitation and Transplant Association (TTS section) and of International Society for Experimental Microsurgery. His current clinical affiliation is with the Transplant Institute at the Sahlgrenska University Hospital in Gothenburg.

Keynote Speaker Presentation:

MIND THE GAPS! FROM DISCOVERY TO BIOMEDICAL INNOVATION AND CLINICAL TRANSLATION

(24 August, Friday, 15:30 – 15:50, Room A)

Stefano Puleo, MD, PhD (Catania, Italy)



Stefano Puleo got his MD degree in 1973 (summa cum laude) and specialized in General Surgery in 1979 (summa cum laude) at University of Catania.

Up to now he has been Full Professor of Surgery from 2002. He was the director of the School of Digestive Surgery from 2004 to 2008. From 2014 up to now he has been the director of Department of Medical, Surgical Sciences and Advanced Technologies at University of Catania and the President of Italian Society of Surgical. Dr. Puleo is the member of IHPBA and International College of Surgeon

He published more than 200 articles, 165 of them indexed on Scopus, and 8 chapters of books.

In 2000 he was Co-Chairman at 5th Congress of ISEM in Catania and elected Councillor until now. He co-organized three microsurgical courses with Prof. Sun Lee in Catania in the eighties.

Keynote Speaker Presentation:

TRANSLATIONAL RESEARCH IN HEPATIC FIBROSIS AND LIVER REGENERATION
(24 August, Friday, 16:30 – 16:50, Room A)

René H. Tolba, MD, PhD (Aachen, Germany)



Professor Tolba is the Professor and Director of Institute of Laboratory Animal Science, RWTH Aachen. He graduated as MD in 1998 (Medical School, Bonn, Germany and Pittsburgh, USA). He got his PhD degree in 2002 at Department of Surgery, University of Bonn. In 2003 he qualified in Medical Informatics and as Quality Manager and Auditor. He did his habilitation and got his *venia legendi* for Experimental Surgery and Medicine in 2007.

His professional positions: 1998-1999 Research Fellow, Department of Gastroenterology, University, Pittsburgh, USA; 1998-1999 Internship, University of Bonn and Pittsburgh, USA; 1999-2004 Fellow in Surgery and Surgical Research, Department of Surgery, Bonn; 2003 *Secundo loco* as Professor for Experimental Surgery and Immunology, Department of Surgery, Div. of Plastic and Reconstructive Surgery, University of Pittsburgh; 2004 Head, House of Experimental Therapy, University of Bonn; 2005 Member: Scientific Advisory Board Federal Association of Organ transplantation; 2007 Professor (W2) and Chairmen, Institute for Laboratory Animal Science; 2008 Head IZKF Core Facility Genotype Phenotype Facility, RTWH, Aachen, Germany (High Resolution Ultrasound, 2 P Microscopy, Physiology in Rodents); 2008 Head IZKF Core Facility Transgenic Service, RTWH Aachen, Germany; 2008 Chairmen Steering Committee: "2 Photon Microscopy", RTWH, Aachen, Germany; 2009 Chairmen Steering Committee: "Laboratory Animal Science", RTWH, Aachen; 2011 Professor (W3) and Chairmen, Institute for Laboratory Animal, Science; 2014 Member German Research Council, DFG; Senate Commission for Laboratory Animal Science; 2014 Member; 3R ZEBET Commission; Federal Institute of Risk Assessment, Germany; 2015 Chairmen; RWTH Aachen University Committee Animal Welfare; 2017 Member National Animal Welfare Committee Federal Republic of Germany; 2017 Vice Dean for Research, Medical Faculty, RWTH Aachen.

His main research area includes organ preservation of abdominal organs; ischemia / reperfusion injury & microcirculation; surgical pathophysiology; animal models (microsurgery) & 3R; severity assessment. Professor Tolba has been awarded numerous prizes and honors, such as Posterprice German Transplant Society (1997); Travel Grant Japanese Society of Surgery (2002); Posterprice Swiss Society of Experimental Surgery (2006); Travel Grant Japanese Society of Surgery (2007); British Journal of Surgery Award European Society of Surgical Research (2008); Prize of the Germany Society of Organ transplantation (2010); B. Braun Award European Society of Surgical Research (2011); Presidential Award 23rd Meeting of Japanese Society of Hepato-Biliary-Pancreatic Surgery, Tokyo, Japan (2011); Outstanding Presentation Award (Dr. Nagai); 31st annual meeting of the Japanese Liver Transplantation Society (2013). Professor Tolba has memberships and

Duties in a numerous scientific societies and associations, such as Vice-President at German Society of Laboratory Animal Science (GV-SOLAS); Past- President at German Society of Laboratory Animal Science (GV-SOLAS); Past President at European Society of Surgical research; German Surgical Society; Section Surgical Research; German Society of Surgery; Section Military Medicine; German Society of Surgery; Section Quality Management; German Society of Surgery; Japanese German Society for the Study of Liver surgery; Federation of European Laboratory Animal Science Associations; Course Director Master of Science in Laboratory Animal Science. He is the member of several Editorial Boards, such as Section Editor; Surgery Laboratory Animals; Editorial Board Member; European Surgical Research; World Journal of Transplantation; Niche: Journal of Cellular Therapy and Regenerative Medicine; The Journal of Basic and Applied Zoology.

Keynote Speaker Presentation:

MICROSURGERY TRANSPLANTATION MODELS IN THE RAT: LIVER AND SMALL BOWEL TRANSPLANTATION FROM EDUCATION TO TRANSLATION

(24 August, Friday, 8:50 – 9:10, Room A)

Shinji Uemoto, MD, PhD (Kyoto, Japan)



Prof. Uemoto was born in 1956. Currently he works at the Department of Surgery, Division of HPB Surgery and Transplantation, Kyoto University Graduate School of Medicine.

He graduated in Kyoto University School of Medicine in 1981 and at Kyoto University Graduate School of Medicine in 1990. He has been research fellow in Hammer-Smith Hospital, Royal College of London between 1993–1994. He has licensure and certification: National Board of Medicine, PhD of Medical Science in Kyoto University and Japanese Board of Surgery. He was junior resident at the

Department of Surgery, Kyoto University Hospital in 1981 and senior resident at Tsukaguchi Hyogo Municipal Hospital between 1982–1986. He worked as clinical fellow between 1990–1992 and as assistant professor between 1992–1996 at the 2nd Department of Surgery, Kyoto University. Prof. Uemoto was assistant professor between 1996–1999 and associate professor between 1999–2001 at the Department of Transplant Surgery, Kyoto University. He was the director and professor of The 1st Department of Surgery, Mie University between 2001–2006. From 2006 up to now, he has been the director and professor of Department of HPB Surgery and Transplantation, Graduate School of Medicine. He has been the Vice-director of Kyoto University Hospital between 2011–2014. Prof. Uemoto has been the Dean of Graduate School of Medicine, Kyoto University from 2014.

Keynote Speaker Presentation:

CLINICAL MICROSURGERY FOR HEPATOBILIARY SURGERY AND LIVER
TRANSPLANTATION IN KYOTO UNIVERSITY
(25 August, Saturday, 11:35 – 11:55, Room A)

Hao Wang, MD, PhD (Tianjin, China)



Dr. Hao Wang is an experienced surgeon-scientist with expertise in General Surgery, Minimally Invasive Surgery, Transplantation, Microsurgery and Immunology.

He has been directing a world-class Microsurgery and Transplant Immunology Program at The University of Western Ontario and London Health Sciences Centre in London, Canada for 6 years. Currently, Dr. Wang was recruited by Tianjin Medical University General Hospital (TMUGH), Tianjin, China. He is a Distinguished Professor and a Surgeon in Department of Surgery, and the Chair of Microsurgery and Laparo-Endoscopic Clinical Center at TMUGH, as well as a Senior Scientist at Tianjin General Surgery Institute. Dr. Wang is also directing an Experimental Surgery team to provide the experimental surgical models that serve as the transition between fundamental research and clinic. He has applied Chinese medicine-based therapy and regenerative medicine in the treatment of immune-mediated diseases including transplant rejection and ulcerative colitis. Dr. Wang has authored or co-authored more than 100 papers published in leading journals including Nature Medicine, Journal of Immunology, American Journal of Transplantation, Circulation, British Journal of Surgery, Journal of Translational Medicine, etc. His performance is also reflected by his successfully funded peer-reviewed national and international grants from Canada, Swiss and China. In recognition of his outstanding work, Dr. Wang has received 16 national and international scientific awards. Currently, Dr. Wang is the corresponding secretary and a scientific committee member for International Society for Experimental Microsurgery (ISEM), as well as an editorial board member for 8 peer-reviewed journals. He was the president of 13th Congress of ISEM and has established "International Center for the Training and Advancement of Microsurgery" (The Chinese Division of the ISEM). Dr. Wang has been actively involved with the hands-on research and clinical training for surgical residents, clinical and research fellows, post-doctoral fellows, undergraduate and graduate students, and medical students. He holds memberships with numerous professional societies including The Transplantation Society, International Society for Experimental Microsurgery, Canadian Society of Transplantation, American Society of Transplantation, and The Chinese Medical Association.

Keynote Speaker Presentation:

THE ROLE OF ENDOMETRIAL REGENERATIVE CELLS IN TRANSLATIONAL MEDICINE

(24 August, Friday, 15:50 – 16:10, Room A)

Shintaro Yagi, MD, PhD, FACS (Kyoto, Japan)



Shintaro YAGI was born in 1971. He got MD in 1997 (1991-1997), and PhD degree in 2006 from Mie University. Current his position is senior lecturer of Hepatobiliary Transplant Surgery in Kyoto University, Japan. His clinical specialty is liver transplantation and hepatobiliary and pancreas (HBP) surgery including microsurgery. His research interest is focused on liver regeneration and ischemia reperfusion injury in the liver using small and large animal models.

He is a councilor of ISEM and got a Microsurgical Technology Award from ISEM in 2015, and B. Braun Award from European Society of Surgical Research (ESSR) in 2011. He has published 106 articles so far regarding clinical and experimental HBP and transplant surgery. Now he is developing a 3D-4K Video Microscope System with a high resolution with Prof. Kobayashi and Prof. Uemoto, being supported by Japanese Government. They also have an emphasis on the microsurgical education for young surgeons. Accordingly they founded ISEM West Japan chapter, in which they have convened educational hands-on seminars of microsurgery for young surgeons.

Keynote Speaker Presentation:

MICRO- AND MACRO- BORDERLESS HBPT SURGERY USING NOVEL 3D-4K VIDEO SYSTEM

(24 August, Friday, 15:10 – 15:25, Room A)

Zheng Jenny Zhang, MD, PhD (Chicago, USA)



Director of Comprehensive Transplant Center
Microsurgery Core & Research Professor of Surgery.

Dr. Zhang is the Director of Comprehensive Transplant Center Microsurgery Core and a Professor of Surgery (Research) in Northwestern University Feinberg School of Medicine. She received my MD in 1983 from Tongji Medical University (TMU) in Wuhan, China, completed five years of surgical resident training in Tongji Hospital, the 2nd teaching hospital of TMU in 1988, and subsequently became an attending surgeon specialized transplant surgery and a lecturer at the same hospital. During her residency, she also

received a Master of Science Degree (M.Sc.) in transplant immunology at the same university in 1988 and as one of the youngest investigator in the year, she received a research award by Chinese National Nature Science Foundation for my research in the field of organ transplantation.

To further career develop, she took a challenging yet exciting research opportunity in Canada and began her research training in the University of Western Ontario, London, Canada in the early 1990s. After three-year postdoctoral training, she had worked there as a junior faculty (instructor/lecturer) for approximate four years before she was recruited as a faculty member by Northwestern University, Chicago, USA in 1998.

Dr. Zhang has more than 30 years of experience in transplant immunology and experimental microsurgery. Her research interest has revolved around developing and utilizing small animal transplant models to address critical questions relevant to the field of organ transplantation, specifically to understand the cellular and molecular mechanisms underlying rejection responses and immune regulations. She successfully developed and characterized mouse transplant models including mouse kidney and small bowel transplantation. These models have been widely used for extensive studies on transplant immunology and potential therapeutic strategies in the prevention of rejection. Dr. Zhang has been a PI or co-Investigator on internal and external grants including NIH and industry-funded grants and has published numerous papers in peer-reviewed journals and multiple book chapters and review articles as a first author/co-author/senior author. In addition, she has served as an invited speaker or a chair/moderator at multiple research seminars and has been a reviewer for the American Transplant Congress, an annual meeting of American Transplant Society and American Society of Transplant Surgeons and for multiple scientific journals (AJT, Frontiers Immunology, Transplant International, etc) since 2010. Northwestern and in the national and international conferences. She has been a member since 2000, and the treasurer for the board of ISEM since 2016.

Keynote Speaker Presentation:

MODELING DELAYED GRAFT FUNCTION IN KIDNEY TRANSPLANTATION IN MICE
(24 August, Friday, 8:35 – 8:50, Room A)

The MediChoir



The MediChoir began its work in 2010. In its early days less than 10 people were involved who performed on stage for the first time at the AIDS Charity Concert in 2010. Founding the choir was the idea of the then medical student Ágnes Lipécz and was conducted by Bernadett Bettina Bodó who was a student of the Faculty of Pharmacy. During the following years many students, each more enthusiast than the other, joined the choir. As the number of members rocketed and one performance followed the other, choir practices became frequent and the current formation of us working together started to take shape. The choir is led by the conductor, choir leader and the notary of the choir. Since 2013 our conductor has been Főgel-Veres Anett, who is a DLA student of the Ferenc Liszt Academy of Music in Budapest. The position of the notary is currently filled by Máté Nagy (Faculty of Public Health) and the choir leader is Dorottya Hadházi (Faculty of Medicine).

The choir is currently consisting of 35 members most of whom are students of the faculties of medical and health sciences of the University of Debrecen.

In the autumn semesters we are invited to diversify Sunday Masses several times and we are constant guests of the AIDS Charity Concert and the Christmas Concert organized by the Cultural Secretariat. In addition to this we are invited to numerous other events, such as those of the University of Debrecen Professor's Club. Every year at the end of the Spring semesters we organize the Zenélő Medikusok Charity Concert. The choir is also a member of the Ars Medica Pro Humanitate Hungarica Association. Every year during springtime the Association organizes a nationwide conference, of which we are also constant performing guests and they helped us to organize two standalone performances in Budapest in the last few years.

The MediChoir's repertoire includes several pieces, we sing traditional music from different places of the world, church music, classical music and we are glad to perform at the Conference and to be a part of the Opening Ceremony.

Program at the Opening Ceremony:

Anonym: Tourdion

Ferenc Farkas: Pataki diákdalok (Students' Songs from the 18th Century)

Three Zulu Songs (Siyahamba - Singahambayo - Ipharadisi)

Lajos Bárdos: Érik a som (Cornel is Ripening)

Attila Pless



Attila Pless was born in 1964 in Debrecen. He began his studies in music at the age of eight. At Emil Simonffy Music School he was taught by Mr. Tamás Irinyi, at Zoltán Kodály Secondary Music School by Kálmán Irmái. He got his diploma in 1988 with excellent results at Franz Liszt Music Academy. He was taught by Ernő Szegedi and Edit Hambalkó.

He was an active participant of the master courses of György Sebók, Dmitri Bashkirov and Rudolf Kehrer. He attended several international piano competitions (Budapest, Seregno, Parma, Enna and Aosta).

He also presented his talents at the Radio of Novi Sad, held concerts in Denmark, Italy, Lithuania, the USA, Finland, Germany, Greece and Canada.

He held master courses in several cities in Hungary, Finland, Romania and Germany. In 1995 he was awarded with the “Junge Kunst in Europa” prize in Paderborn. He was also given the “Culture for Debrecen” prize several times. He has been teaching at the Faculty of Music of Debrecen University since 1986.

He works as a College Associate Professor, head of Keyboard Department and vice-dean of the Faculty of Music, University of Debrecen.

Program at the Welcome Reception:

Béla Bartók: Este a székelyeknél (Evening in the Village)
Ferenc Liszt: Transcendental Étude No. 11 in D-flat, “Harmonies du soir”
Grandes Études de Paganini, No. 2 in E-flat major



Played on the Boganyi Piano (<http://www.boganyi-piano.com>)



Scientific Programme

ISEM 2018
Debrecen

Time Table

Time	23 August	24 August		25 August		
	Thursday	Room A	Room A	Room B	Room A	Room B
08:00		SESSION I "Transplantation models, transplantation immunology"			SESSION IX "Lymphatic microsurgery"	SESSION X "Speeding Symposium"
09:00						
09:20						SESSION XI "Microsurgery in zoo-biological research"
10:00		COFFEE BREAK		COFFEE BREAK		
10:15		SESSION II "Microsurgical techniques and models 1"	SESSION III "Microsurgical Education 1"		SESSION XII "Clinical microsurgery 1"	
10:30						
11:00						
11:15		Lunch time ISEM Board Meeting			SESSION XIII "Clinical microsurgery 2"	
12:00						
12:15					CLOSING CEREMONY, ANNOUNCEMENT OF THE ISEM 2020 CONGRESS	
13:00	REGISTRATION	SESSION IV "Microsurgical techniques and models 2"	SESSION V "Microsurgical Education 2"			
14:30						
14:40		COFFEE BREAK				
14:50		SESSION VI "Mitaka Symposium"				
15:30		SESSION VII "Translational research"	SESSION VIII "Ischemia-reperfusion in microsurgery"			
16:50						
17:00		OPENING CEREMONY	ISEM GENERAL ASSEMBLY			
17:30	SUN LEE AWARD SESSION					
18:00						
18:30	PLENARY SESSION					
19:00		GALA DINNER AT TUBA TANYA Buses leave at 19:00				
19:30	WELCOME RECEPTION					

Scientific Programme

Thursday | 23 August, 2018 | Room A

17:00 – 17:30 OPENING CEREMONY

17:30 – 18:30 THE SUN LEE AWARD SESSION

TRIBUTE TO THE MEMORY OF PROFESSOR SUN LEE

FURKA I.

Department of Operative Techniques and Surgical Research, Institute of Surgery, Faculty of Medicine, University of Debrecen, Debrecen, Hungary

THE MICROSURGERY TRAINING PROGRAM AT PIUS BRANZEU CENTER IN TIMISOARA, ROMANIA. A 20 YEARS JOURNEY

IONAC M.

Department of Microsurgery, Pius Branzeu Center for Flap Surgery and Microsurgery, Victor Babes University of Medicine and Pharmacy, Timisoara, Romania

18:30 – 19:00 PLENARY SESSION OF INVITED LECTURERS

PATIENT-DERIVED ORTHOTOPIC XENOGRAPTS: BETTER MIMIC OF METASTASIS THAN SUBCUTANEOUS XENOGRAPTS

HOFFMAN R. M^{1,2}

¹AntiCancer Inc, USA

²Department of Surgery, University of California San Diego, USA

19:30 – 22:00 WELCOME RECEPTION

Friday | 24 August, 2018 | Room A

08:00 – 10:00 SESSION I: TRANSPLANTATION MODELS, TRANSPLANTATION IMMUNOLOGY

Chairmen: MIHAI OLTEAN (SWEDEN), HAO WANG (CHINA), BALÁZS NEMES (HUNGARY)

08:00 – 08:20 Keynote Speaker: NONHUMAN PRIMATES IN PRECLINICAL STUDIES

CHEN H.

University of Montreal, Montreal, Canada

08:20 – 08:35 EFFECT OF ASP2409 MONO AND COMBINATION THERAPY IN THE PROLONGATION OF MONKEY RENAL ALLOGRAFT SURVIVAL

SONG L.¹, MA A.¹, DUN H.¹, HU Y.¹, YASUTOMO F.², KINUGASA F.², OSHIMA S.², HIGASHI Y.², DALOZE P.¹, CHEN H.¹

¹University of Montreal, Montreal, Canada

²Astellas Pharma Inc., Tokyo, Japan

- 08:35 – 08:50 Keynote Speaker:**
MODELING DELAYED GRAFT FUNCTION IN KIDNEY TRANSPLANTATION IN MICE
QIU L. H., WANG J. J., YEAP X. Y., ABECASSIS M., ZHANG Z. J.
Comprehensive Transplant Center, Northwestern University, Feinberg School of Medicine, Chicago, IL, USA
- 08:50 – 09:10 Keynote Speaker:** **MICROSURGERY TRANSPLANTATION MODELS IN THE RAT: LIVER AND SMALL BOWEL TRANSPLANTATION. FROM EDUCATION TO TRANSLATION**
TOLBA R.H.
Institute for Laboratory Animal Science and Experimental Surgery, RWTH Aachen, University, Aachen, Germany
- 09:10 – 09:30 Keynote Speaker:**
LIVER BUD TRANSPLANTATION IN RATS
KOBAYASHI E.
Keio University School of Medicine, Tokyo, Japan
- 09:30 – 09:40 LIVER GRAFT PRESERVATION USING PERFLUOROCARBON WITH OXYGENATION IMPROVES THE OUTCOMES OF SIMULATED DONATION AFTER CARDIAC DEATH LIVER TRANSPLANTATION IN RATS**
OKUMURA S.¹, YAGI S.¹, UEMURA T.¹, MASANO Y.¹, IIDA T.¹, KAIDO T.¹, KOBAYASHI E.², UEMOTO S.¹
¹Division of Hepato-Biliary-Pancreatic Surgery and Transplantation, Kyoto University, Kyoto, Japan
²Keio University, Tokyo, Japan
- 09:40 – 09:50 MELATONIN PROMOTES SMALL-FOR-SIZE LIVER GRAFT REGENERATION BY INFILTRATING MONOCYTES RELEASED INTERLEUKIN-6**
SONG Z., TIAN Y., HUMAR B., GUPTA A., MAURIZIO E., GRAF R., CLAVIEN P-A.
Department of Visceral and Transplantation Surgery, University Hospital of Zürich, Zürich, Switzerland
- 09:50 – 10:00 THE MORPHOLOGIC AND MOLECULAR PATTERN OF MUCOSAL REPAIR AFTER INTESTINAL TRANSPLANTATION IN THE RAT**
PADMA A., MAGNUSSON A., HELLSTRÖM M., OLTEAN M.
The Laboratory for Transplantation and Regenerative Medicine, Sahlgrenska Academy at the University of Gothenburg, Gothenburg, Sweden
- 10:00-10:30 Coffee break**
- 10:30 – 12:00 SESSION II: MICROSURGICAL TECHNIQUES AND MODELS 1**
Chairmen: EIJI KOBAYASHI (JAPAN), HUIFANG CHEN (CANADA)

10:30 – 10:50 Keynote Speaker:
**MICROSURGICAL PREPARATION OF INTRAMURAL
CORONARY RESISTANCE ARTERIES FROM THE RAT AND
MICE**

NÁDASY GY., SZEKERES M., SOERHEIM A., ROSHOLT V.
Physiology Department, Semmelweis University, Budapest, Hungary

**10:50 – 11:00 ANIMAL MODEL OF HUMAN LEG VARICOSITY PRODUCED
BY MICROSURGERY: INCOMPETENT PERFORANTES AND
TRIBUTARIES, RETICULAR AND SPIDER VEINS**

PATAI B. B.¹, DÖRNYEI G.², MONOS E.³, NÁDASY GY.¹

¹Department of Physiology, Semmelweis University, Budapest, Hungary

²Department of Morphology and Physiology, Health Education Faculty, Semmelweis University, Budapest, Hungary

³Department of Clinical Experimental Research, Medical Faculty, Budapest, Hungary

**11:00 – 11:10 CONTINUOUS VERSUS INTERRUPTED SUTURE TECHNIQUE
IN MICROVENOUS ANASTOMOSIS: EXPERIMENTAL STUDY**

GRANHEN H. D.^{1,2}, SILVA, D. F.^{2,3}, CARNEIRO F. R.^{2,4},
TEIXEIRA R. K. C.^{2,3}, FEIJÓ D. H.^{2,3}, VALENTE A. L.^{2,3},
CARVALHO L. T. F.^{2,5}, BARROS R. S. M.^{2,3}, REIS J. M. C.^{2,1}

¹Faculdade Metropolitana da Amazônia (FAMAZ), Belém, Brazil

²Laboratório de Cirurgia Experimental da Universidade Estadual do Pará (LCE-UEPA), Belém, Brazil

³Universidade Estadual do Pará (UEPA), Belém, Brazil

⁴Centro Universitário do Pará (CESUPA), Belém, Brazil

⁵Universidade Federal do Pará (UFPA), Belém, Brazil

**11:10 – 11:20 EXAMINING SHEAR-STRENGTH OF MICRO-VASCULAR
ANASTOMOSES PERFORMED BY DIFFERENT SUTURING
TECHNIQUES**

SZABÓ B.¹, FAZEKAS L.¹, GHANEM S.¹, GODÓ Z. A.², MADAR J.²,
APRÓ A.², NÉMETH N.¹

¹Department of Operative Techniques and Surgical Research, Institute of Surgery, Faculty of Medicine, University of Debrecen, Debrecen, Hungary

²Department of Information Technology, Faculty of Informatics, University of Debrecen, Debrecen, Hungary

**11:20 – 11:30 PRELIMINARY STUDY ON INFERIOR SUPERFICIAL
EPIGASTRIC VEIN LOOP INTERPOSITIONING INTO THE
FEMORAL ARTERY IN THE RAT**

SZABÓ B., TÁNCZOS B., GHANEM S., NÉMETH N.

Department of Operative Techniques and Surgical Research, Institute of Surgery, Faculty of Medicine, University of Debrecen, Debrecen, Hungary

**11:30 – 11:40 EVALUATION OF MICROCIRCULATION AND MICRO-
RHEOLOGICAL PARAMETERS IN THE PRESENCE OF
CAROTID-JUGULAR FISTULA IN THE RAT**

GHANEM S., TÁNCZOS B., SOMOGYI V., DEÁK Á., NÉMETH N.

Department of Operative Techniques and Surgical Research, Institute of Surgery, Faculty of Medicine, University of Debrecen, Debrecen, Hungary

11:40 – 11:50 FOLLOWING-UP HEMORHEOLOGICAL, HEMATOLOGICAL AND METABOLIC STATUS IN A 5/6 NEPHRECTOMY MODEL IN THE RAT

GHANEM S.¹, FAZEKAS L.¹, SZABÓ B.¹, TÁNCZOS B.¹, SOMOGYI V.¹, BARÁTH B.¹, DEÁK Á.¹, BIDIGA L.², NÉMETH N.¹

¹Department of Operative Techniques and Surgical Research, Institute of Surgery, Faculty of Medicine, University of Debrecen, Debrecen, Hungary

²Department of Pathology, Faculty of Medicine, University of Debrecen, Debrecen, Hungary

11:50 – 12:00 COMPUTATIONAL FLUID DYNAMICS ASSESSMENT OF AORTIC ANEURYSM MODEL IN RAT

VARGA P., GEDEI A., MAROTI P., NYITRAI M., RUSZICS D., GASZ B.
University of Pécs, Pécs, Hungary

**12:00 – 13:00 Lunch break
ISEM Board Meeting**

(The Board Members will be informed about the venue)

13:00 – 14:40 SESSION IV: MICROSURGICAL TECHNIQUES AND MODELS 2

Chairmen: EDNA MONTERO (BRAZIL), JENNY Z. ZHANG (USA)

13:00 – 13:10 ANATOMICAL DESCRIPTION AND VARIATIONS OF BRAQUIAL PLEXUS IN WISTAR RATS

BARROS R. S. M.^{1,2}, CARNEIRO F. R.^{1,3}, GRANHEN H. D.^{1,4}, SILVA D. F.^{1,2}, MORIYA F. V.¹, SILVA G. R. S.¹, TEIXEIRA R. K. C.^{1,2}, VALENTE A. L.^{1,2}

¹Laboratório de Cirurgia Experimental - UEPA, Belém, Brazil

²Universidade do Estado do Pará - UEPA, Belém, Brazil

³Centro Universitário do Estado do Pará - CESUPA, Belém, Brazil

⁴Faculdade Metropolitana da Amazônia - FAMAZ, Belém, Brazil

13:10 – 13:20 COMPARATIVE EXPERIMENTAL STUDY OF PERIPHERAL NEURAL RECONSTRUCTION WITH BIOLOGICAL AND SYNTHETIC NEUROTUBE

BARROS R. S. M.^{1,2}, SILVA, D. F.^{1,2}, CARNEIRO F. R.^{1,3}, GRANHEN H. D.^{1,4}, VALENTE A. L.^{1,2}, HABER FEIJÓ D.^{1,2}, TEIXEIRA R. K. C.^{1,2}, SOMENSI D. N.¹, REIS J. M. C.¹

¹Laboratório de Cirurgia Experimental da Universidade do Estado do Pará (LCE-UEPA), Belém, Brazil

²Universidade do Estado do Pará, Belém, Brazil

³Centro Universitário do Pará, Belém, Brazil

⁴Faculdade Metropolitana da Amazônia, Belém, Brazil

13:20 – 13:30 RAT ALPPS: INSIGHTS INTO THE OPERATIVE PROCEDURE
TIHANYI D. K., BUDAI A., FÜLÖP A., KOVÁCS T., KECZER B., SZIJÁRTÓ A.

^{1st} Department of Surgery, Semmelweis University, Budapest, Hungary

13:30 – 13:40 PEDICLED TEMPOROPARIETAL FASCIAL FLAP FOR TRACHEAL RECONSTRUCTION ON RAT ANIMAL MODEL – FEASIBILITY STUDY

WALCZAK D.¹, MIGACZ E.², CICHONÍ T.³, BULA D.¹, KUKWA W.², MACIEJEWSKI A.¹, KRAKOWYCZK Ł.¹

¹Department of Oncological and Reconstructive Surgery, Maria Skłodowska-Curie Memorial Cancer Centre and Institute of Oncology, Gliwice, Poland

²Department of Otorhinolaryngology, Medical University of Warsaw, Warsaw, Poland

³Center for Translational Research and Molecular Biology of Cancer, Maria Skłodowska-Curie Memorial Cancer Center and Institute of Oncology, Gliwice, Poland

13:40 – 13:50 PREGNANCY IS A RISK FACTOR FOR CORNEAL STROMAL HAZE AFTER LASER REFRACTIVE SURGERY IN RABBITS

CSUTAK A.¹, SILVER D.², TŐZSÉR, J.³, HASSAN Z.⁴, BERTA A.¹

¹ Department of Ophthalmology, Faculty of Medicine, University of Debrecen, Debrecen, Hungary

² Retired from Applied Physics Laboratory, Johns Hopkins University, Maryland, USA

³ Department of Biochemistry and Molecular Biology, Faculty of Medicine, University of Debrecen, Debrecen, Hungary

⁴ Orbident Ltd, Debrecen, Hungary

13:50 – 14:00 INVESTIGATION OF BODY COMPOSITION AND IMMUNOLOGICAL STATUS IN SARCOPENIA RATS

IWAMURA S., KAIDO T., YAGI S., MIYACHI Y., YOH S., SHIRAI H., OKUMURA S., UEMOTO S.

Department of Surgery, Graduate School of Medicine, Kyoto University, Kyoto Prefecture, Japan

14:00 – 14:10 PARTIAL FREEZING: WHOLE LIVER PRESERVATION INSPIRED BY NATURE

PENDEXTER C.^{1,2}, CRONIN S.^{1,2}, DEVRIES R.^{1,2,3}, OZER S.^{1,2}, BANKI P.^{1,2}, NAGPAL S.^{1,2}, TESSIER S.^{1,2}, UYGUN K.^{1,2}, TONER M.^{1,2}

¹Massachusetts General Hospital Department of Surgery, Boston, USA

²Harvard Medical School Center for Engineering in Medicine, Boston, USA

³Academic Medical Center Department of Surgery, Amsterdam, Netherlands

14:10 – 14:20 RAPID PROTOTYPING USING ADDITIVE MANUFACTURING APPLIED IN MICROSURGERY: A 3D-PRINTED RETRACTOR FOR OPEN SURGERY ON RATS

BERKEN J., HOINOIU B., IONAC M., NISTOR A.

Department of Microsurgery, Pius Brnzeu Center for Flap Surgery and Microsurgery, Victor Babes University of Medicine and Pharmacy, Timisoara, Romania

14:20 – 14:30 SMARTPHONE-OPERATED NEAR-INFRARED THERMAL IMAGING AS MONITORING AND SURVIVAL PREDICTION TOOL IN PERFORATOR FLAPS. AN EXPERIMENTAL MODEL ON PIGS

SCHMIDT J., HOINOIU B., IONAC M., NISTOR A.

Department of Microsurgery, Pius Brnzeu Center for Flap Surgery and Microsurgery, Victor Babes University of Medicine and Pharmacy, Timisoara, Romania

14:30 – 14:40 TRANSIT TIME ULTRASOUND FLOW MEASUREMENT AS INTRAOPERATIVE DECISIONAL TOOL FOR FLAP REVISION AND MONITORING IN SUB-MILLIMETER FLAP VESSELS. AN EXPERIMENTAL MODEL IN RATS.

MEIBERT P.¹, NISTOR H. A.², HOINOIU B.², IONAC M.², NISTOR A.²

¹General, Visceral and Transplant Surgery Department, Köln, Germany

²Department of Microsurgery, Pius Branzu Center for Flap Surgery and Microsurgery, Victor Babes University of Medicine and Pharmacy, Timisoara, Romania

14:40 – 14:50 Coffee break

14:50 – 15:30 SESSION VI: MITAKA SYMPOSIUM

Chairmen: SHINJI UEMOTO (JAPAN)

14:50 – 15:00 INTRODUCTION:

A NEW WIND FOR MICROSURGERY – 3D VIDEO MICROSCOPE

KOBAYASHI E.

Keio University School of Medicine, Tokyo, Japan

15:00 – 15:10 ROBOT-ASSISTED SURGERY: A NEW WIND FOR MICROSURGERY

KOBAYASHI E.

Keio University School of Medicine, Tokyo, Japan

15:10 – 15:25 MICRO- AND MACRO- BORDERLESS HBPT SURGERY USING NOVEL 3D-4K VIDEO SYSTEM

YAGI S.¹, UEMOTO S.¹, KOBAYASHI E.²

¹Kyoto University, Kyoto, Japan

²Keio University, Tokyo, Japan

15:25 – 15:30 TOOLS AND EQUIPMENTS

NAKAMURA K.

Mitaka Ltd., Japan

15:30 – 16:50 SESSION VII: TRANSLATIONAL RESEARCH

Chairmen: ROBERT HOFFMAN (USA), RENÉ H. TOLBA (GERMANY)

15:30 – 15:50 Keynote Speaker:

MIND THE GAPS! FROM DISCOVERY TO BIOMEDICAL INNOVATION AND CLINICAL TRANSLATION

OLTEAN M.

Sahlgrenska Academy at the University of Gothenburg, Gothenburg, Sweden

15:50 – 16:10 Keynote Speaker:

THE ROLE OF ENDOMETRIAL REGENERATIVE CELLS IN TRANSLATIONAL MEDICINE

WANG H.^{1,2}

¹Department of General Surgery, Tianjin Medical University General Hospital,

²Tianjin General Surgery Institute, Tianjin, China

16:10 – 16:30 Keynote Speaker:
PATIENT-DERIVED-HCC TUMOR MODEL IN MICE

LI W.

China-Japan Union Hospital of Jilin University, Changchun, China

16:30 – 16:50 Keynote Speaker:
TRANSLATIONAL RESEARCH IN HEPATIC FIBROSIS AND LIVER REGENERATION

PULEO S., PESCE A.

Department of Medical and Surgical Sciences and Advanced Technologies “G.F. Ingrassia”, University of Catania, Catania, Italy

17:00 – 18:00 GENERAL ASSEMBLY OF THE ISEM

Friday | 24 August, 2018 | Room B

10:30-12:00 SESSION III: MICROSURGICAL EDUCATION 1 (EDUCATIONAL PROGRAMS)

Chairmen: MIHAI IONAC (ROMANIA), IRÉN MIKÓ (HUNGARY), ANDREA SZABÓ (HUNGARY)

10:30 – 10:45 Keynote Speaker:
PRESENT CONSIDERATIONS ABOUT THE ROLE OF MICROSURGERY IN GENERAL SURGERY

DI CATALDO A.

University of Catania, Italy, Catania, Italy

10:45 – 11:00 Keynote Speaker:
STUDYING DIFFERENT CLINICALLY RELEVANT MICROSURGICAL PROBLEMS AS MY STUDENT’S RESEARCH

AKELINA Y., LEVI M., HARB A.

Columbia University, New York, USA

11:00 – 11:10 OBJECTIVE EVALUATION OF MICROSURGERY SKILLS AT THE SCANDINAVIAN MICROSURGERY ACADEMY - CAN THIS LEAD TO BETTER MICROSURGEONS?

AXELSSON M.^{1,6}, HELLSTRÖM M.^{2,6}, SASSU P.^{3,6}, AXELSSON P.^{3,6}, EWALDSSON L.^{5,6}, NILSSON A. G.^{3,6}, OLTEAN M.^{2,4,6}

¹Department of Biological and Environmental Sciences, University of Gothenburg, Gothenburg, Sweden

²The Laboratory for Transplantation and Regenerative Medicine, Sahlgrenska Academy at the University of Gothenburg, Gothenburg, Sweden

³Plastic and Hand Surgery Department, Sahlgrenska University Hospital, Gothenburg, Sweden

⁴The Transplant Institute, Sahlgrenska University Hospital, Gothenburg, Sweden

⁵Experimental Biomedicine Department, University of Gothenburg, Gothenburg, Sweden

⁶Scandinavian Microsurgery Academy, University of Gothenburg, Gothenburg, Sweden

**11:10 – 11:20 NATIONAL PROJECT OF THE HANDS-ON SEMINAR FOR
MICROSURGICAL TRAINING FOR YOUNG SURGEON
CONDUCTED BY ISEM JAPAN**

GABATA R.¹, YAGI S.², TAKAMURA H.¹, UEMOTO S.², KOBAYASHI E.³,
OHTA T.¹

¹Kanazawa University, Department of Gastroenterological Surgery, Kanazawa, Ishikawa,
Japan

²Kyoto University, Department of Hepatobiliary Pancreas and Transplant Surgery, Kyoto,
Japan

³Keio University School of Medicine, Department of Organ Fabrication, Tokyo, Japan

**11:20 – 11:30 MICROSURGICAL TRAINING PROGRAMS BETWEEN 2013-
2018 AT THE DEPARTMENT OF OPERATIVE TECHNIQUES
AND SURGICAL RESEARCH, FACULTY OF MEDICINE,
UNIVERSITY OF DEBRECEN**

NÉMETH N., MIKÓ I., FURKA I.

Department of Operative Techniques and Surgical Research, Institute of Surgery, Faculty
of Medicine, University of Debrecen, Debrecen, Hungary

**11:30 – 11:40 MICROSURGICAL EDUCATION FOR RESIDENCY ON THE
SEMMELWEIS UNIVERSITY**

FERENCZ A., SZABÓ GY., FEHÉR D., JUHOS K., CSUKÁS D.,
SÁNDOR J., WÉBER GY.

Department of Surgical Research and Techniques, Faculty of Medicine, Semmelweis
University, Budapest, Hungary

**11:40 – 11:50 OPHTHALMOLOGICAL MICROSURGERY-RELATED HANDS-
ON TRAINING FOR MEDICAL STUDENTS**

CSUTAK A., UJHELYI B.

Department of Ophthalmology, Faculty of Medicine, University of Debrecen, Debrecen,
Hungary

**11:50 – 12:00 HANDS-ON TRAINING OF MICROSURGERY FOR VETERINARY
STUDENTS IN JAPAN**

SATO M., ENDO K., ISHII H., KOBAYASHI E.

Keio University School of Medicine, Tokyo, Japan

12:00 – 13:00 Lunch break

**13:00 – 14:40 SESSION V: MICROSURGICAL EDUCATION 2
(TRAINING MODELS)**

Chairmen: YELENA AKELINA (USA),

MICHAEL AXELSSON (SWEDEN), ANDREA FERENCZ (HUNGARY)

**13:00 – 13:10 Keynote Speaker:
MICROSURGICAL EDUCATION IN THE 21ST CENTURY - QUO
VADIS?**

NISTOR A.

Department of Microsurgery, Pius Brnzeu Center for Flap Surgery and Microsurgery,
Victor Babes University of Medicine and Pharmacy, Timisoara, Romania

13:10 – 13:20 **ERGONOMICS AND FEASIBILITY OF SMARTPHONE-ASSISTED VERSUS OPERATIVE MICROSCOPE MAGNIFICATION IN MICROSURGICAL TRAINING. AN EXPERIMENTAL STUDY**

SCHMIDT J., OHNTRUPP J. N., BERKEN J., HOINOIU B., IONAC M., NISTOR A.

Department of Microsurgery, Pius Branzeu Center for Flap Surgery and Microsurgery, Victor Babes University of Medicine and Pharmacy, Timisoara, Romania

13:20 – 13:30 **OBJECTIVE ASSESSMENT OF MICROSURGICAL SKILL ACQUISITION USING SOFTWARE-ASSISTED SCORING SYSTEM AND TRANSIT TIME ULTRASOUND FLOW MEASUREMENT**

TOMA C., OHNTRUPP J. N., BERKEN J., TEICU B., AL-BARRI L., HOINOIU B., IONAC M., NISTOR A.

Department of Microsurgery, Pius Branzeu Center for Flap Surgery and Microsurgery, Victor Babes University of Medicine and Pharmacy, Timisoara, Romania

13:30 – 13:40 **DO-IT-YOURSELF HOME TRAINING TOOL FOR IMPROVEMENT OF MICROSURGICAL SKILL ACQUISITION**

MAN T., IONAC M., NISTOR A.

Department of Microsurgery, Pius Branzeu Center for Flap Surgery and Microsurgery, Victor Babes University of Medicine and Pharmacy, Timisoara, Romania

13:40 – 13:50 **LOW DOSE PROPRANOLOL SIGNIFICANTLY DECREASES SURGICAL HAND TREMOR IN MICROSURGERY – A RANDOMISED, DOUBLE-BLINDED, PLACEBO-CONTROLLED EXPERIMENTAL STUDY**

CIURA A.¹, IONAC A.², IONAC M.¹, NISTOR A.¹

¹Department of Microsurgery, Pius Branzeu Center for Flap Surgery and Microsurgery, Victor Babes University of Medicine and Pharmacy, Timisoara, Romania

²Department of Cardiology, Victor Babes University of Medicine and Pharmacy, Timisoara, Romania

13:50 – 14:00 **INNERVATED MUSCULOCUTANEOUS LATISSIMUS DORSI FREE FLAP PHALLOPLASTY TRANSPOSITION MODEL IN PIGS. AN AFFORDABLE LEARNING TOOL FOR GENITO-URINARY RECONSTRUCTIVE SURGEONS**

KOJOVIC V.¹, NISTOR H. A.², PIEKNY R.², HOINOIU B.², IONAC M.², NISTOR A.²

¹Department of Urology, Institute for Mother and Child Health Care, University of Belgrade, Belgrade, Serbia

²Department of Microsurgery, Pius Branzeu Center for Flap Surgery and Microsurgery, Victor Babes University of Medicine and Pharmacy, Timisoara, Romania

14:00 – 14:10 ANTEROLATERAL THIGH FLAP IN A CHICKEN MODEL: A NOVEL PERFORATOR TRAINING MODEL

COSTA A. L.¹, CUCINOTTA F.², FAZIO A.¹, DELIA G.¹, GALEANO M.¹, D'ALCONTRES F. S.¹, BATTISTON B.³, TOS P.⁴, GEORGESCU A.⁵, COLONNA M. R.¹

¹Department of Human Pathology of the Adult, the Child and the Adolescent, University of Messina, Messina, Italy

²Department of Engineering, University of Messina, Messina, Italy

³Azienda Ospedaliero-Universitaria Città della Salute e della Scienza di Torino, Department of Traumatology, Turin, Italy

⁴Hand Surgery and Reconstructive Microsurgery Unit, ASST G Pini-CTO, Milano, Italy

⁵Department of Plastic Surgery, Rehabilitation Hospital, Iuliu Hatieganu University of Medicine and Pharmacy, Cluj-Napoca, Romania

14:10 – 14:20 DETAILED SIMULATION-BASED METHOD FOR IMPROVING SKILLS IN MICROSURGICAL EDUCATION

GASZ B.^{1,2}, VARGA P.^{1,2}, BARABÁS I.^{2,3}, MARÓTI P.², GEDEI A.¹, JANCÓS G.¹

¹Department of Surgical Research and Techniques, Pécs, Hungary

²3D Centre, University of Pécs, Pécs, Hungary

³Heart and Vascular Centre, Semmelweis University, Budapest, Hungary

14:20 – 14:30 LEARN MICROSURGERY ON CADAVERS - A NEW WAY FOR RESIDENTS

JANCÓS M.¹, TAMÁS R.¹, NEMESKÉRI Á.², FEKETE A.¹, KATZ S.², DEÁK B.¹, SZUÁK A.²

¹Medical Centre, Hungarian Defence Forces (MH EK Honvédkórház), Budapest, Hungary

²Department of Anatomy, Histology and Embryology, Semmelweis University, Faculty of Medicine, Budapest, Hungary

14:30 – 14:40 DECISIONAL ALGORITHM FOR AUTHORS IN SELECTING THE OPTIMAL JOURNAL FOR PUBLICATION OF MICROSURGICAL PAPERS

OHNTRUP J.N., NISTOR A.

Department of Microsurgery, Pius Branzu Center for Flap Surgery and Microsurgery, Victor Babes University of Medicine and Pharmacy, Timisoara, Romania

14:40 – 14:50 Coffee break

15:30 – 16:50 SESSION VIII: ISCHEMIA-REPERFUSION IN MICROSURGERY

Chairmen: EDNA MONTERO (BRAZIL),

FRANCESCO BOCCARDO (ITALY),

NORBERT NÉMETH (HUNGARY)

15:30 – 15:50 Keynote Speaker: N-ACETYLCYSTEINE ON IMMUNE RESPONSE OF FETAL INTESTINAL TRANSPLANTATION

MONTERO E. F.

Faculdade de Medicina da Universidade de São Paulo - LIM-62, São Paulo, Brazil

15:50 – 16:00 N-ACETYLCYSTEINE ON THE INFLAMMATORY RESPONSE AND BACTERIAL TRANSLOCATION IN A MODEL OF INTESTINAL OBSTRUCTION AND ISCHEMIA IN RATS

COSTA R. I. D. D.^{1,2}, RASSLAN R.², KOIKE M. K.³, JACYSYN J. F.², UTIYAMA E. M.², MONTERO E. F.²

¹Universidade Federal de São Carlos, São Carlos, Brazil

²Faculdade de Medicina da Universidade de São Paulo - LIM-62, São Paulo, Brazil

³Faculdade de Medicina da Universidade de São Paulo - LIM-51, São Paulo, Brazil

16:00 – 16:10 N-ACETYLCYSTEINE ON INFLAMMATION, OXIDATIVE STRESS, AND CELL DEATH IN MICE WITH STEATOHEPATITIS SUBMITTED TO HEPATIC ISCHEMIA AND REPERFUSION

FERREIRA N. C.¹, MONTERO E. F.¹, KOIKE M. K.², JACYSYN, J. F.¹, DINIZ J. A. I.³

¹Faculdade de Medicina da Universidade de São Paulo - LIM-62, São Paulo, Brazil

²Faculdade de Medicina da Universidade de São Paulo - LIM-51, São Paulo, Brazil

³Instituto Evandro Chagas - Laboratory of Electron Microscopy, Belém, Brazil

16:10 – 16:20 EFFECTS OF GIT-27NO, A NO DONATING COMPOUND, ON HEPATIC ISCHEMIA/REPERFUSION INJURY

LANTERI R.¹, MANGANO K.², BASILE M. S.², LATINO R.¹, FAGONE P.², CALTABIANO R.¹, DI CATALDO A.¹

¹Department of Surgical Sciences, Organ Transplantation and Advanced Technologies, University of Catania, Catania, Italy

²Department of Biomedical and Biotechnological Sciences, University of Catania, Catania, Italy

16:20 – 16:30 PHARMACOLOGICAL STIMULATION OF THE NO/SGC/CGMP PATHWAY REDUCES ISCHEMIA-REPERFUSION INJURY AND IMPROVES DONOR ORGAN FUNCTION IN A RAT MODEL OF HETEROTOPIC HEART TRANSPLANTATION

BENKE K., NÉMETH B. T., SAYOUR A. A., STARK K., SZABOLCS Z., HARTYÁNSZKY I., MERKELY B., RADOVITS T.

Heart and Vascular Center, Semmelweis University, Budapest, Hungary

16:30 – 16:40 BENEFICIAL EFFECTS OF REMOTE ORGAN ISCHEMIC PRECONDITIONING ON MICRO-RHEOLOGICAL PARAMETERS AND MICROCIRCULATION IN PARTIAL LIVER ISCHEMIA-REPERFUSION IN THE RAT

MAGYAR ZS.¹, MESTER A.¹, NADUBINSZKY G.¹, VARGA G.¹, GHANEM S.¹, SOMOGYI V.¹, TÁNCZOS B.¹, DEÁK Á.¹, BIDIGA L.², OLTEAN M.³, PETŐ K.¹, NÉMETH N.¹

¹Department of Operative Techniques and Surgical Research, Institute of Surgery, Faculty of Medicine, University of Debrecen, Debrecen, Hungary

²Department of Pathology, Faculty of Medicine, University of Debrecen, Debrecen, Hungary

³The Transplantation Institute, Sahlgrenska University Hospital, Gothenburg, Sweden

16:40 – 16:50 EARLY OR DELAYED REMOTE ORGAN ISCHEMIC PRECONDITIONING IS THE BETTER REGARDING TO MICROCIRCULATORY AND MICRO-RHEOLOGICAL ALTERATIONS IN RENAL ISCHEMIA-REPERFUSION OF RATS?

VARGA G.¹, NAGY K.¹, PÁL N.¹, NADUBINSZKY G.¹, SZABÓ B.¹, TÁNCZOS B.¹, SOMOGYI V.¹, DEÁK Á.¹, BIDIGA L.², PETŐ K.¹, NÉMETH N.¹

¹Department of Operative Techniques and Surgical Research, Institute of Surgery, Faculty of Medicine, University of Debrecen, Debrecen, Hungary

²Department of Pathology, Faculty of Medicine, University of Debrecen, Debrecen, Hungary

Saturday | 25 August, 2018 | **Room A**

09:00 – 10:00 SESSION IX: LYMPHATIC MICROSURGERY

Chairmen: HAO WANG (CHINA), YINGHUA TIAN (SWITZERLAND)

09:00 – 09:20 Keynote Speaker:
SINGLE-SITE MULTIPLE LYMPHATIC VENOUS ANASTOMOSIS (SS-MLVA) FOR THE STAGING-GUIDED PERIPHERAL LYMPHEDEMA TREATMENT AND BEST LONG-TERM CLINICAL OUTCOME

CAMPISI C.

Operative Unit of Lymphatic Surgery Department of Surgery, DISC "Ospedale Policlinico San Martino" University School, Genoa, Italy

09:20 – 09:40 Keynote Speaker:
SEQUENTIAL SELECTIVE FIBRO-LIPO-LYMPH-ASPIRATION BY LYMPH VESSEL SPARING PROCEDURE (FLLA-LVSP) FOR THE EFFECTIVE TREATMENT OF ADVANCED STAGES OF PERIPHERAL LYMPHEDEMA

CAMPISI C. C.

Plastic Surgery University School of Catania, Italy Consultant of Plastic, Reconstructive and Aesthetic Surgery GVM Care&Research, Genoa, Italy

09:40 – 10:00 Keynote Speaker:
PRIMARY AND EARLY SECONDARY PREVENTION OF LYMPHEDEMA FOLLOWING AXILLARY AND GROIN LYMPH NODE DISSECTION

BOCCARDO F.¹, DESSALVI S.¹, VILLA G.², DE CIAN F.³, FRIEDMAN D.⁴, VALENZANO M.⁵, CASABONA F.⁵, CAMPISI C.C.⁶, CAMPISI C.¹

¹Unit of Lymphatic Surgery, University Hospital San Martino, Genoa, Italy

²Unit of Nuclear Medicine, University Hospital San Martino, Genoa, Italy

³Unit of Surgical Oncology, University Hospital San Martino, Genoa, Italy

⁴Breast Unit, University Hospital San Martino, Genoa, Italy

⁵Unit of Gynecology, University Hospital San Martino, Genoa, Italy

⁶Plastic Surgery, Genoa, Italy

10:00 – 10:15 Coffee break

10:15 – 11:15 SESSION XII: CLINICAL MICROSURGERY 1

Chairmen: HEINZ-JOCHEN GASSEL (GERMANY),
ALEXANDRU NISTOR (ROMANIA), RÓBERT TAMÁS (HUNGARY)

10:15 – 10:35 Keynote Speaker:

PERFORATOR FLAPS: EXPERIMENTAL AND CLINICAL CONSIDERATIONS

GEORGESCU A. V.

University of Medicine Iuliu Hatieganu, Cluj Napoca, Romania

10:35 – 10:45 CAN WE USE A FREE OSTEOCUTAN FIBULA FLAP AS A (CHIMERA) FLAP?

FÜZES A.¹, OBERNA F.², REMENÁR É.¹

¹ NATIONAL INSTITUTE OF ONCOLOGY, MULTIDISCIPLINARY CENTRE OF HEAD AND NECK ONCOLOGY

² BÁCS-KISKUN COUNTY HOSPITAL, ORO-MAXILLOFACIAL SURGERY AND OTORHINOLARYNGOLOGY

10:45 – 10:55 THE EXPERIENCE AND PITFALLS OF FREE FLAP SURGERY IN HEAD AND NECK RECONSTRUCTION FROM A PERSPECTIVE OF A YOUNG PLASTIC SURGICAL RESIDENT

KLÁRIK Z.

Multidisciplinary Centre of Head and Neck Oncology, National Institute of Oncology, Budapest, Hungary

10:55 – 11:05 TOTAL UPPER AND LOWER LIP RECONSTRUCTION WITH A COMBINATION OF FREE FLAP AND STATIC SUSPENSION

KLÁRIK Z., KOLTAI L.

Multidisciplinary Centre of Head and Neck Oncology, National Institute of Oncology, Budapest, Hungary

11:05 – 11:15 RECONSTRUCTED TISSUES FOR FEMALE FERTILITY TREATMENTS

HELLSTRÖM M.¹, TIEMANN T. T.², PADMA A. M.¹, SONG M. J.³,
BRÄNNSTRÖM M.¹

¹Laboratory for Transplantation and Regenerative Medicine, Inst. of Clinical Science, Sahlgrenska Academy, University of Gothenburg, Gothenburg, Sweden

²Department of Obstetrics and Gynecology, University Hospital Heidelberg, Heidelberg, Germany

³Division of Gynecologic Oncology, Dept. of Obstetrics and Gynecology, Daejeon St. Mary's Hospital, The Catholic University of Korea, Seoul, Korea

11:15 – 12:15 SESSION XIII: CLINICAL MICROSURGERY 2

Chairmen: STEFANO PULEO (ITALY), WEI LI (CHINA),
SHINTARO YAGI (JAPAN)

11:15 – 11:35 Keynote Speaker:

MICROSURGICAL APPROACH TO THE SKULL BASE TUMORS

NOVÁK L., BOGNÁR L.

Department of Neurosurgery, Faculty of Medicine, University of Debrecen, Debrecen, Hungary

11:35 – 11:55 **Keynote Speaker:**
**CLINICAL MICROSURGERY FOR HEPATOBILIARY SURGERY
AND LIVER TRANSPLANTATION IN KYOTO UNIVERSITY**

UEMOTO S.

Kyoto University, Kyoto, Japan

11:55 – 12:05 **EVALUATION OF KCNMA1 AS A BIOMARKER AND
THERAPEUTIC TARGET IN COLORECTAL CANCER**

PESCE A.¹, FAGONE P.², PULEO S.¹

¹Department of Medical and Surgical Sciences and Advanced Technologies "G.F. Ingrassia", University of Catania, Catania, Italy

²Department of Biomedical and Biotechnological Sciences, University of Catania, Catania, Italy

12:05 – 12:15 **EFFECTS OF MODULATION OF THE NRF2/HO-1/CO
PATHWAY IN FIBROSIS AND HEPATIC REGENERATION**

PESCE A.¹, MANGANO K.², FAGONE P.², PULEO S.¹

¹Department of Medical and Surgical Sciences and Advanced Technologies "G.F. Ingrassia", University of Catania, Catania, Italy

²Department of Biomedical and Biotechnological Sciences, University of Catania, Catania, Italy

12:15-12:30 **Closing Ceremony,
Announcement of the ISEM 2020 Congress**

Saturday | 25 August, 2018 | **Room B**

09:00 – 9:20 **SESSION X: SPEEDING SYMPOSIUM**

Chairmen: KATALIN PETŐ (HUNGARY)

09:00 – 09:20 **HIGH-FIDELITY SIMULATORS (AR/VR) IN GRADUATE AND
POSTGRADUATE MEDICAL EDUCATION**

VADÁSZI Z.

Speeding Ltd, Budapest, Hungary

09:20 – 10:00 **SESSION XI: MICROSURGERY IN ZOO-BIOLOGICAL
RESEARCH**

Chairmen: MICHAEL AXELSSON (SWEDEN),

ÁDÁM DEÁK (HUNGARY)

09:20 – 09:40 **Keynote Speaker:**
**MICROSURGERY FROM A COMPARATIVE BIOLOGY
PERSPECTIVE**

AXELSSON M.^{1,2}

¹Department of Biological and Environmental Sciences, University of Gothenburg, Gothenburg, Sweden

²Scandinavian Microsurgery Academy, University of Gothenburg, Gothenburg, Sweden

**09:40 – 09:50 THE ROLE OF THE VETERINARY SURGEON IN CREATING
MICROSURGICAL ANIMAL MODELS OF DISEASE FOR
TRANSLATIONAL RESEARCH**

PHILLIPS H.

University of Illinois College of Veterinary Medicine, Urbana, Illinois, USA

**09:50 – 10:00 VALIDATION OF A MODEL OF FELINE URETERAL
OBSTRUCTION AS A TOOL FOR TEACHING MICROSURGERY
TO VETERINARY SURGEONS**

PHILLIPS H.

University of Illinois College of Veterinary Medicine, Urbana, Illinois, USA

10:00 – 10:15 Coffee break



Notes



A series of 18 horizontal dotted lines for writing notes, set against a faint background illustration of a classical building with two towers and a large wheel.



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UNIVERSITY OF
GOTHENBURG

The 15th CONGRESS OF THE INTERNATIONAL SOCIETY FOR EXPERIMENTAL MICROSURGERY

GOTHENBURG, SWEDEN

August 27-29, 2020





Congress Office

Mr. Papp Zsombor

Convention Budapest Kft.

H-1143 Budapest, Besnyői u. 13., 1. em.

Phone: +36 1 299 0184, **Fax:** +36 1 299 0187

E-mail: zspapp@convention.hu

www.convention.hu