



**ISEM** 2018  
Debrecen

14<sup>th</sup> Congress of the  
International Society for  
Experimental Microsurgery

23-25 August, 2018 | Debrecen, Hungary

# ***Preliminary programme***

[www.isem2018.org](http://www.isem2018.org)

# General Information

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**Feng Zhang**, MD, PhD (USA)  
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**Shuang-Bai Zhou**, MD, PhD (China)

## Sun Lee Awardees 2018

**István Furka**, MD, PhD, DSc (Hungary) and **Mihai Ionac**, MD, PhD (Romania)

## Invited Lectures

**Robert M. Hoffman**, MD, PhD (USA)

## Keynote Speakers

**Yelena Akelina**, DVM, PhD (USA), **Michael Axelsson**, PhD (Sweden), **Francesco Boccardo**, MD, PhD (Italy), **Corradino Campisi**, MD, PhD (Italy), **Corrado C. Campisi**, MD (Italy), **Antonio Di Cataldo**, MD, PhD (Italy), **Huifang Chen**, MD, PhD (Canada), **Alexandru Georgescu**, MD, PhD (Romania), **Eiji Kobayashi**, MD, PhD (Japan), **Wei Li**, MD, PhD (China), **Edna F.S. Montero**, MD, PhD (Brazil), **György Nádasy**, MD, PhD, DSc (Hungary), **Alexandru Nistor**, MD (Romania), **László Novák**, MD, PhD (Hungary), **Mihai Oltean**, MD, PhD (Sweden), **Stefano Puleo**, MD, PhD (Italy), **René H. Tolba**, MD, PhD (Germany), **Shinji Uemoto**, MD, PhD (Japan), **Hao Wang**, MD, PhD (China), **Shintaro Yagi**, MD, PhD (Japan), **Zheng Jenny Zhang**, MD, PhD (USA)

## Main Topics

- Transplantation models: new techniques and innovations
- Transplantation immunology
- Microsurgical education
- Advanced microsurgery tools, robotic microsurgery
- Translational research and microsurgery
- Stem cell and tissue/organ fabrication
- Lymphatic microsurgery
- Reconstructive microsurgery
- Microsurgical models in oncological research
- Microsurgery in zoo-biological and veterinary research

# 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						
12:00		Lunch time ISEM Board Meeting		SESSION XIII "Clinical microsurgery 2"	CLOSING CEREMONY, ANNOUNCEMENT OF THE ISEM 2020 CONGRESS	
12:15						
12:30						
13:00	REGISTRATION	SESSION IV "Microsurgical techniques and models 2"	SESSION V "Microsurgical Education 2"		OPTIONAL POST-CONGRESS TOUR TO TOKAJ OR EGER	
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					



# Preliminary Programme

Thursday | 23 August, 2018

## 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 XENOGRAFTS: BETTER MIMIC OF METASTASIS THAN SUBCUTANEOUS XENOGRAFTS

HOFFMAN R. M.<sup>1,2</sup>

<sup>1</sup>AntiCancer Inc., USA

<sup>2</sup>Department 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.<sup>1</sup>, MA A.<sup>1</sup>, DUN H.<sup>1</sup>, HU Y.<sup>1</sup>, YASUTOMO F.<sup>2</sup>, KINUGASA F.<sup>2</sup>, OSHIMA S.<sup>2</sup>, HIGASHI Y.<sup>2</sup>, DALOZE P.<sup>1</sup>, CHEN H.<sup>1</sup>

<sup>1</sup>University of Montreal, Montreal, Canada

<sup>2</sup>Astellas 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.<sup>1</sup>, YAGI S.<sup>1</sup>, UEMURA T.<sup>1</sup>, MASANO Y.<sup>1</sup>, IIDA T.<sup>1</sup>, KAIDO T.<sup>1</sup>, KOBAYASHI E.<sup>2</sup>, UEMOTO S.<sup>1</sup>  
<sup>1</sup>Division of Hepato-Biliary-Pancreatic Surgery and Transplantation, Kyoto University, Kyoto, Japan  
<sup>2</sup>Keio 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.<sup>1</sup>, DÖRNYEI G.<sup>2</sup>, MONOS E.<sup>3</sup>, NÁDASY GY.<sup>1</sup>

<sup>1</sup>Department of Physiology, Semmelweis University, Budapest, Hungary

<sup>2</sup>Department of Morphology and Physiology, Health Education Faculty, Semmelweis University, Budapest, Hungary

<sup>3</sup>Department 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.<sup>1,2</sup>, SILVA, D. F.<sup>2,3</sup>, CARNEIRO F. R.<sup>2,4</sup>, TEIXEIRA R. K. C.<sup>2,3</sup>, FEIJÓ D. H.<sup>2,3</sup>, VALENTE A. L.<sup>2,3</sup>, CARVALHO L. T. F.<sup>2,5</sup>, BARROS R. S. M.<sup>2,3</sup>, REIS J. M. C.<sup>2,1</sup>

<sup>1</sup>Faculdade Metropolitana da Amazônia (FAMAZ), Belém, Brazil

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

<sup>3</sup>Universidade Estadual do Pará (UEPA), Belém, Brazil

<sup>4</sup>Centro Universitário do Pará (CESUPA), Belém, Brazil

<sup>5</sup>Universidade Federal do Pará (UFPA), Belém, Brazil

11:10 – 11:20

**EXAMINING SHEAR-STRENGTH OF MICRO-VASCULAR ANASTOMOSES PERFORMED BY DIFFERENT SUTURING TECHNIQUES**

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

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

<sup>2</sup>Department 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.<sup>1</sup>, FAZEKAS L.<sup>1</sup>, SZABÓ B.<sup>1</sup>, TÁNCZOS B.<sup>1</sup>, SOMOGYI V.<sup>1</sup>, BARÁTH B.<sup>1</sup>, DEÁK Á.<sup>1</sup>, BIDIGA L.<sup>2</sup>, NÉMETH N.<sup>1</sup>

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

<sup>2</sup>Department 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.<sup>1,2</sup>, CARNEIRO F. R.<sup>1,3</sup>, GRANHEN H. D.<sup>1,4</sup>, SILVA D. F.<sup>1,2</sup>, MORIYA F. V.<sup>1</sup>, SILVA G. R. S.<sup>1</sup>, TEIXEIRA R. K. C.<sup>1,2</sup>, VALENTE A. L.<sup>1,2</sup>

<sup>1</sup>Laboratório de Cirurgia Experimental - UEPA, Belém, Brazil

<sup>2</sup>Universidade do Estado do Pará - UEPA, Belém, Brazil

<sup>3</sup>Centro Universitário do Estado do Pará - CESUPA, Belém, Brazil

<sup>4</sup>Faculdade 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.<sup>1,2</sup>, SILVA, D. F.<sup>1,2</sup>, CARNEIRO F. R.<sup>1,3</sup>, GRANHEN H. D.<sup>1,4</sup>, VALENTE A. L.<sup>1,2</sup>, HABER FEIJÓ D.<sup>1,2</sup>, TEIXEIRA R. K. C.<sup>1,2</sup>, SOMENSI D. N.<sup>1</sup>, REIS J. M. C.<sup>1</sup>

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

<sup>2</sup>Universidade do Estado do Pará, Belém, Brazil

<sup>3</sup>Centro Universitário do Pará, Belém, Brazil

<sup>4</sup>Faculdade 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.<sup>1</sup>, MIGACZ E.<sup>2</sup>, CICHÓN T.<sup>3</sup>, BULA D.<sup>1</sup>, KUKWA W.<sup>2</sup>, MACIEJEWSKI A.<sup>1</sup>, KRAKOWYCZK Ł.<sup>1</sup>

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

<sup>2</sup>Department of Otorhinolaryngology, Medical University of Warsaw, Warsaw, Poland

<sup>3</sup>Center 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.<sup>1</sup>, SILVER D.<sup>2</sup>, TÓZSÉR, J.<sup>3</sup>, HASSAN Z.<sup>4</sup>, BERTA A.<sup>1</sup>

<sup>1</sup>Department of Ophthalmology, Faculty of Medicine, University of Debrecen, Debrecen, Hungary

<sup>2</sup>Retired from Applied Physics Laboratory, Johns Hopkins University, Maryland, USA

<sup>3</sup>Department of Biochemistry and Molecular Biology, Faculty of Medicine, University of Debrecen, Debrecen, Hungary

<sup>4</sup>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.<sup>1,2</sup>, CRONIN S.<sup>1,2</sup>, DEVRIES R.<sup>1,2,3</sup>, OZER S.<sup>1,2</sup>, BANIK P.<sup>1,2</sup>, NAGPAL S.<sup>1,2</sup>, TESSIER S.<sup>1,2</sup>, UYGUN K.<sup>1,2</sup>, TONER M.<sup>1,2</sup>  
<sup>1</sup>Massachusetts General Hospital Department of Surgery, Boston, USA  
<sup>2</sup>Harvard Medical School Center for Engineering in Medicine, Boston, USA  
<sup>3</sup>Academic 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 Branzu 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 Branzu 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.<sup>1</sup>, NISTOR H. A.<sup>2</sup>, HOINOIU B.<sup>2</sup>, IONAC M.<sup>2</sup>, NISTOR A.<sup>2</sup>  
<sup>1</sup>General, Visceral and Transplant Surgery Department, Köln, Germany  
<sup>2</sup>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**
- 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.<sup>1</sup>, UEMOTO S.<sup>1</sup>, KOBAYASHI E.<sup>2</sup>  
<sup>1</sup>Kyoto University, Kyoto, Japan  
<sup>2</sup>Keio 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.<sup>1,2</sup>

<sup>1</sup>Department of General Surgery, Tianjin Medical University General Hospital,

<sup>2</sup>Tianjin 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.<sup>1,6</sup>, HELLSTRÖM M.<sup>2,6</sup>, SASSU P.<sup>3,6</sup>, AXELSSON P.<sup>3,6</sup>, EWALDSSON L.<sup>5,6</sup>, NILSSON A. G.<sup>3,6</sup>, OLTEAN M.<sup>2,4,6</sup>

<sup>1</sup>Department of Biological and Environmental Sciences, University of Gothenburg, Gothenburg, Sweden

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

<sup>3</sup>Plastic and Hand Surgery Department, Sahlgrenska University Hospital, Gothenburg, Sweden

<sup>4</sup>The Transplant Institute, Sahlgrenska University Hospital, Gothenburg, Sweden

<sup>5</sup>Experimental Biomedicine Department, University of Gothenburg, Gothenburg, Sweden

<sup>6</sup>Scandinavian 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.<sup>1</sup>, YAGI S.<sup>2</sup>, TAKAMURA H.<sup>1</sup>, UEMOTO S.<sup>2</sup>, KOBAYASHI E.<sup>3</sup>, OHTA T.<sup>1</sup>

<sup>1</sup>Kanazawa University, Department of Gastroenterological Surgery, Kanazawa, Ishikawa, Japan

<sup>2</sup>Kyoto University, Department of Hepatobiliary Pancreas and Transplant Surgery, Kyoto, Japan

<sup>3</sup>Keio 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 Branzau 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 Branzau 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 Branzau 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 Branzau 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.<sup>1</sup>, IONAC A.<sup>2</sup>, IONAC M.<sup>1</sup>, NISTOR A.<sup>1</sup>  
<sup>1</sup>Department of Microsurgery, Pius Branzau Center for Flap Surgery and Microsurgery,  
Victor Babes University of Medicine and Pharmacy, Timisoara, Romania  
<sup>2</sup>Department 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.<sup>1</sup>, NISTOR H. A.<sup>2</sup>, PIEKNY R.<sup>2</sup>, HOINOIU B.<sup>2</sup>, IONAC M.<sup>2</sup>, NISTOR A.<sup>2</sup>  
<sup>1</sup>Department of Urology, Institute for Mother and Child Health Care, University of  
Belgrade, Belgrade, Serbia  
<sup>2</sup>Department of Microsurgery, Pius Branzau 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.<sup>1</sup>, CUCINOTTA F.<sup>2</sup>, FAZIO A.<sup>1</sup>, DELIA G.<sup>1</sup>, GALEANO M.<sup>1</sup>,  
D'ALCONTRES F. S.<sup>1</sup>, BATTISTON B.<sup>3</sup>, TOS P.<sup>4</sup>, GEORGESCU A.<sup>5</sup>,  
COLONNA M. R.<sup>1</sup>  
<sup>1</sup>Department of Human Pathology of the Adult, the Child and the Adolescent, University  
of Messina, Messina, Italy



<sup>2</sup> Department of Engineering, University of Messina, Messina, Italy

<sup>3</sup> Azienda Ospedaliero-Universitaria Citta della Salute e della Scienza di Torino, Department of Traumatology, Turin, Italy

<sup>4</sup> Hand Surgery and Reconstructive Microsurgery Unit, ASST G Pini-CTO, Milano, Italy

<sup>5</sup> Department 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.<sup>1,2</sup>, VARGA P.<sup>1,2</sup>, BARABÁS I.<sup>2,3</sup>, MARÓTI P.<sup>2</sup>, GEDEI A.<sup>1</sup>, JANCÓS G.<sup>1</sup>

<sup>1</sup> Department of Surgical Research and Techniques, Pécs, Hungary

<sup>2</sup> 3D Centre, University of Pécs, Pécs, Hungary

<sup>3</sup> Heart and Vascular Centre, Semmelweis University, Budapest, Hungary

**14:20 – 14:30**

### **LEARN MICROSURGERY ON CADAVERS - A NEW WAY FOR RESIDENTS**

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

<sup>1</sup> Medical Centre, Hungarian Defence Forces (MH EK Honvédkórház), Budapest, Hungary

<sup>2</sup> Department 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 Branzau 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.<sup>1,2</sup>, RASSLAN R.<sup>2</sup>, KOIKE M. K.<sup>3</sup>, JACYSYN J. F.<sup>2</sup>, UTIYAMA E. M.<sup>2</sup>, MONTERO E. F.<sup>2</sup>

<sup>1</sup> Universidade Federal de São Carlos, São Carlos, Brazil

<sup>2</sup> Faculdade de Medicina da Universidade de São Paulo - LIM-62, São Paulo, Brazil

<sup>3</sup> Faculdade 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.<sup>1</sup>, MONTERO E.F.<sup>1</sup>, KOIKE M. K.<sup>2</sup>, JACYSYN, J. F.<sup>1</sup>, DINIZ J. A. I.<sup>3</sup>

<sup>1</sup> Faculdade de Medicina da Universidade de São Paulo - LIM-62, São Paulo, Brazil

<sup>2</sup> Faculdade de Medicina da Universidade de São Paulo - LIM-51, São Paulo, Brazil

<sup>3</sup> Instituto 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.<sup>1</sup>, MANGANO K.<sup>2</sup>, BASILE M. S.<sup>2</sup>, LATINO R.<sup>1</sup>, FAGONE P.<sup>2</sup>, CALTABIANO R.<sup>1</sup>, DI CATALDO A.<sup>1</sup>

<sup>1</sup>Department of Surgical Sciences, Organ Transplantation and Advanced Technologies, University of Catania, Catania, Italy

<sup>2</sup>Department 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.<sup>1</sup>, MESTER A.<sup>1</sup>, NADUBINSZKY G.<sup>1</sup>, VARGA G.<sup>1</sup>, GHANEM S.<sup>1</sup>, SOMOGYI V.<sup>1</sup>, TÁNCZOS B.<sup>1</sup>, DEÁK Á.<sup>1</sup>, BIDIGA L.<sup>2</sup>, OLTEAN M.<sup>3</sup>, PETŐ K.<sup>1</sup>, NÉMETH N.<sup>1</sup>

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

<sup>2</sup>Department of Pathology, Faculty of Medicine, University of Debrecen, Debrecen, Hungary

<sup>3</sup>The 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.<sup>1</sup>, NAGY K.<sup>1</sup>, PÁL N.<sup>1</sup>, NADUBINSZKY G.<sup>1</sup>, SZABÓ B.<sup>1</sup>, TÁNCZOS B.<sup>1</sup>, SOMOGYI V.<sup>1</sup>, DEÁK Á.<sup>1</sup>, BIDIGA L.<sup>2</sup>, PETŐ K.<sup>1</sup>, NÉMETH N.<sup>1</sup>

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

<sup>2</sup>Department 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:**

**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

09:20 – 09:40

**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

09:40 – 10:00

**Keynote Speaker:**

**PRIMARY AND EARLY SECONDARY PREVENTION OF LYMPHEDEMA FOLLOWING AXILLARY AND GROIN LYMPH NODE DISSECTION**

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

<sup>1</sup>Unit of Lymphatic Surgery, University Hospital San Martino, Genoa, Italy

<sup>2</sup>Unit of Nuclear Medicine, University Hospital San Martino, Genoa, Italy

<sup>3</sup>Unit of Surgical Oncology, University Hospital San Martino, Genoa, Italy

<sup>4</sup>Breast Unit, University Hospital San Martino, Genoa, Italy

<sup>5</sup>Unit of Gynecology, University Hospital San Martino, Genoa, Italy

<sup>6</sup>Plastic 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.<sup>1</sup>, OBERNA F.<sup>2</sup>, REMENÁR É.<sup>1</sup>

<sup>1</sup>NATIONAL INSTITUTE OF ONCOLOGY, MULTIDISCIPLINARY CENTRE OF HEAD AND NECK ONCOLOGY

<sup>2</sup>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.<sup>1</sup>, TIEMANN T. T.<sup>2</sup>, PADMA A. M.<sup>1</sup>, SONG M. J.<sup>3</sup>,  
BRÄNNSTRÖM M.<sup>1</sup>  
<sup>1</sup>Laboratory for Transplantation and Regenerative Medicine, Inst. of Clinical Science, Sahlgrenska Academy, University of Gothenburg, Gothenburg, Sweden  
<sup>2</sup>Department of Obstetrics and Gynecology, University Hospital Heidelberg, Heidelberg, Germany  
<sup>3</sup>Division 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.<sup>1</sup>, FAGONE P.<sup>2</sup>, PULEO S.<sup>1</sup>  
<sup>1</sup>Department of Medical and Surgical Sciences and Advanced Technologies "G.F. Ingrassia", University of Catania, Catania, Italy  
<sup>2</sup>Department 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.<sup>1</sup>, MANGANO K.<sup>2</sup>, FAGONE P.<sup>2</sup>, PULEO S.<sup>1</sup>  
<sup>1</sup>Department of Medical and Surgical Sciences and Advanced Technologies "G.F. Ingrassia", University of Catania, Catania, Italy  
<sup>2</sup>Department 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.<sup>1,2</sup>

<sup>1</sup>Department of Biological and Environmental Sciences, University of Gothenburg, Gothenburg, Sweden

<sup>2</sup>Scandinavian 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**



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