

THURSDAY, 19TH SEPTEMBER 2024

Recent Updates in Pediatric Surgical Research

07:30 – 08:15 **REGISTRATION**

08:15 **OPENING REMARKS**

08:30 – 10:00 **SCIENTIFIC SESSION I**
Advances in Fetal Surgery and Treatments

Chairs: *Prem Puri (Dublin, Ireland)*
 Carmen Mesas Burgos (Stockholm, Sweden)
 Tomas Wester (Stockholm, Sweden)

- 1. FETO: PAST, PRESENT AND FUTURE (30 mins)**
Alexandra Benachi
(Paris, France)
- 2. OPEN SPINA BIFIDA REPAIR BEFORE BIRTH: KEY RESULTS FROM THE ZURICH COHORT OF 220 FETAL SURGERY CASES (30 mins)**
Martin Meuli
(Zurich, Switzerland)
- 3. IN UTERO GENE EDITING AS A POTENTIAL FUTURE AVENUE FOR FETAL INTERVENTIONS (30 mins)**
William Peranteau
(Philadelphia, USA)

10:00 – 10:30 **COFFEE BREAK**

10:30 – 12:00 **SCIENTIFIC SESSION II**
Update on Regenerative Medicine

Chairs: *Magdalena Fossum (Copenhagen, Denmark)*
 Richard Keijzer (Winnipeg, Canada)

- 4. THE ROLE OF TISSUE ENGINEERING IN ESOPHAGEAL REPLACEMENT (30 mins)**
Paolo De Coppi
(London, United Kingdom)
- 5. STEM CELL-DERIVED EXTRACELLULAR VESICLES AS A REGENERATIVE THERAPY FOR HYPOPLASTIC LUNGS: TRANSLATIONAL STUDIES IN CDH LAMB FETUSES (30 mins)**
Augusto Zani
(Toronto, Canada)

6. A ONE-STAGED STRATEGY FOR VAGINAL TISSUE ENGINEERING: A TRANSLATIONAL APPROACH (30 mins)

Magdalena Fossum
(Copenhagen, Denmark)

12:00 – 13:00 **LUNCH**

13:00 – 14:30 **SCIENTIFIC SESSION III**
Update on Clinical Pediatric Surgery

Chairs: *Shilpa Sharma (New Delhi, India)*
 Satoshi Ieiri (Kagoshima, Japan)

7. ROBOTIC-ASSISTED PEDIATRIC SURGERY: OUR EXPERIENCE (30 mins)

Atsuyuki Yamataka
(Tokyo, Japan)

8. INTESTINAL TRANSPLANTATION: WHERE ARE WE TODAY? (30 mins)

Mikko Pakarinen
(Helsinki, Finland)

9. THE SPECTRUM OF CRYPTORCHIDISM: CLINICAL ASPECTS (30 mins)

Jörgen Thorup
(Copenhagen, Denmark)

14:30 – 15:00 **COFFEE BREAK**

15:00 – 16:00 **SCIENTIFIC SESSION IV**
Focus on Personalized Medicine

Chairs: *Giovanna Riccipetioni (Pavia, Italy)*
 Juan Tovar (Madrid, Spain)

10. TRANSLATING PRECLINICAL DISCOVERIES INTO CLINICAL TRIALS IN NEC (30 mins)

Agostino Pierro
(Toronto, Canada)

11. SHURUI SP ROBOT (30 mins)

Kai Xu
(Shanghai, China)

37TH INTERNATIONAL SYMPOSIUM ON PEDIATRIC SURGICAL RESEARCH (ISPSR)
19-21 September 2024 | Stockholm, Sweden

16:00 – 16:30 **SCIENTIFIC SESSION V**
Karolinska Institute and the Nobel Prize

Chairs: *Tomas Wester (Stockholm, Sweden)*
 Carmen Mesas Burgos (Stockholm, Sweden)

12. BEHIND THE SCENES OF THE NOBEL FESTIVITIES (30 mins)
Tobias Degsell
(Stockholm, Sweden)

19:00 RECEPTION AT THE STOCKHOLM CITY HALL

FRIDAY, 20TH SEPTEMBER 2024

07:30 – 08:15 **REGISTRATION**

08:15 **WELCOME REMARKS**

08:30 – 10:30 **SCIENTIFIC SESSION I (PRIZE SESSION)**
Prem Puri Prize for Basic Science Research
Micheal Höllwarth Prize for Clinical Research

Chairs: *Prem Puri (Dublin, Ireland)*
 Tomas Wester (Stockholm, Sweden)

- 1. ADMINISTRATION OF EXTRACELLULAR VESICLES FROM RAT AMNIOTIC FLUID STEM CELLS RESCUES BRANCHING MORPHOGENESIS AND INFLAMMATION LEVELS IN FETAL MICE WITH CONGENITAL DIAPHRAGMATIC HERNIA (8 + 4 mins)**
F. Doktor, V. Fortuna, E. Lo, R.L. Figueira, K. Khalaj, L. Antounians, A. Zani
(Toronto, Canada)
- 2. NATIONAL CENTRALIZATION OF HIRSCHSPRUNG'S DISEASE IN SWEDEN: A COMPARISON OF POSTOPERATIVE OUTCOME (8 + 4 mins)**
L. Söderström, C. Graneli, D. Rossi, K. Hagelsteen, A. Gunnarsdottir, J. Oddsberg, P.-J. Svensson, H. Borg, M. Bräutigam, E. Gustafsson, A. Löf Granström, P. Stenström, T. Wester
(Stockholm, Sweden)
- 3. GLUCAGON-LIKE PEPTIDE PROMOTES MATURATION OF INTESTINAL ORGANOIDS DERIVED FROM NEONATES WITH NECROTIZING ENTEROCOLITIS (8 + 4 mins)**
G. Biouss, C. Lee, B. Li, A. Pierro
(Toronto, Canada)
- 4. STAT TRIAL: STOMA OR INTESTINAL ANASTOMOSIS FOR NECROTIZING ENTEROCOLITIS: SECONDARY OUTCOMES FROM A MULTICENTRE RANDOMIZED CONTROLLED TRIAL (8 + 4 mins)**
N. Ganji, S. Eaton, M. Thyoka, M. Shahroor, A. Zani, J. Sivaraj, S. Loukogeorgakis, P. De Coppi, S. Montedonico, M. Lukac, J.F. Svensson, T. Wester, A. Pierro on behalf of the STAT Trial group
(Toronto, Canada)
- 5. DEFINING THE EFFECTS OF AMNIOTIC FLUID STEM CELL EXTRACELLULAR VESICLE ADMINISTRATION ON THE LIVER OF FETUSES WITH CONGENITAL DIAPHRAGMATIC HERNIA (8 + 4 mins)**
N. Moheimani, R.L. Figueira, F. Doktor, B. Martins, J. Mossemann, B.A. Sayed, A. Zani
(Toronto, Canada)
- 6. circRNA EXPRESSION PROFILE TO IDENTIFY NOVEL MARKERS FOR ABNORMAL LUNG DEVELOPMENT IN THE NITROFEN MODEL FOR CONGENITAL DIAPHRAGMATIC HERNIA (8 + 4 mins)**
M. Jank, M. Mourin, A.O. Aptekmann, N. De Leon, R. LeDuc, M. Kraljevic, R. Wagner, S. Kahnamoui, Y. Miyake, D. Patel, W.H. Tse, M. Boettcher, R. Keijzer
(Winnipeg, Canada)

7. ENHANCEMENT OF ENTERIC NEURAL STEM CELL NEUROGENESIS BY GLIAL CELL-DERIVED NEUROTROPHIC FACTOR IN EXPERIMENTAL HIRSCHSPRUNG'S DISEASE

(8 + 4 mins)

N. Fujiwara, D. Lee, B. Li, A. Yamataka, A. Pierro

(Toronto, Canada)

8. OMENTAL PRE-VASCULARIZATION OF DECELLULARIZED BLADDER MATRIX FOR MUCUS FREE BLADDER AUGMENTATION (8 + 4 mins)

D.J.B. Keene, R. Jackson, M. Cervellione, D. Csukas, G. Szabo, T. Cserni

(Manchester, United Kingdom)

9. SURVIVAL RATE CHANGES IN CHILDREN WITH CONGENITAL DIAPHRAGMATIC HERNIA OVER THE PAST THREE DECADES: A NATIONWIDE, POPULATION-BASED PROSPECTIVE NESTED CASE-CONTROL STUDY (8 + 4 mins)

B. Kutasy, C. Mesas Burgos

(Stockholm, Sweden)

10. FOLLOW-UP AND TRANSITION PRACTICES IN ESOPHAGEAL ATRESIA: A REVIEW OF EUROPEAN REFERENCE NETWORK ON RARE INHERITED AND CONGENITAL ANOMALIES (ERNICA) CENTRES AND AFFILIATES (8 + 4 mins)

N. Durkin, M. Pellegrini, G. Slater, K.M.K. Cross, B. Ure, R. Wijnen, F. Gottrand, P. De Coppi, S. Eaton on behalf of ERNICA

(London, United Kingdom)

10:30 – 11:00 **COFFEE BREAK**

11:00 – 12:15 **SCIENTIFIC SESSION II**

Chairs: *Agostino Pierro (Toronto, Canada)*

Paolo De Coppi (London, United Kingdom)

11. UNVEILING HYPOXIC ADAPTATION AND PRO-ANGIOGENIC PHENOTYPE IN BIOREACTOR-MATURED ESOPHAGEAL GRAFTS (6 + 3 mins)

M. Pellegrini, G.T. Hall, N. Durkin, T. Xenakis, M. Beeslay, R. Lutman, G. Patera, M. Scuglia, D. Di Biagio, M.F.M. Gerli, S. Castellano, S. Eaton, P. De Coppi

(London, United Kingdom)

12. HUMAN ENTERIC GLIA DIVERSITY IN HEALTH AND DISEASE: NEW AVENUES FOR THE TREATMENT OF HIRSCHSPRUNG DISEASE (6 + 3 mins)

J.D. Windster, L.E. Kuil, N. Kakiailatu, A. Antanaviciute, A. Sacchetti, K.C. MacKenzie, J. Peulen-Zink, T.W. Kan, E. Bindels, E. de Pater, M. Doukas, S. Yousefi, T.S. Barakat, C. Meeussen, C.E.J. Sloots, R.M.H. Wijnen, K. Parikh, W. Boesmans, V. Melotte, R.M.W. Hofstra, A. Simmons, M.M. Alves

(Rotterdam, The Netherlands)

- 13. ACTIVATED INFLAMMASOME IS NEEDED FOR SUCCESSFUL TREATMENT WITH AMNIOTIC FLUID STEM CELL DERIVED EXTRACELLULAR VESICLES IN A FETAL EXPLANT MODEL OF GASTROSCHISIS (6 + 3 mins)**
C.P.M. Canonica, E. Zani-Ruttenstock, K. Khalaj, R.L. Figueira, F. Doktor, L. Antounians, G. Speziale, J. Lu, A. Zani
(Toronto, Canada)
- 14. REMOTE ISCHEMIC CONDITIONING IS ORGAN PROTECTIVE DURING NEONATAL SEPSIS VIA HUMORAL SIGNALING (6 + 3 mins)**
P. Grassi, B. Li, G. Biouss, A. Zito, F. Balsamo, A. Pierro
(Toronto, Canada)
- 15. LIVER MITOCHONDRIAL MORPHOLOGY AND GENE EXPRESSION AS MARKERS OF LIVER RESERVE: PROGNOSTIC IMPLICATIONS FOR NATIVE LIVER SURVIVAL IN BILIARY ATRESIA (6 + 3 mins)**
T. Fujimoto, H. Goto, M. Hida, A. Ishiyama, S. Shibuya, Y. Yazaki, N. Tanaka, G. Miyano, T. Okazaki, T. Yanai, M. Urao, M. Suzuki, H. Koga, G.J. Lane, A. Yamataka, K. Suda
(Tokyo, Japan)
- 16. THE PLACENTA IN EXPERIMENTAL CONGENITAL DIAPHRAGMATIC HERNIA IS INFLAMED AND HAS DYSREGULATED ANGIOGENESIS (6 + 3 mins)**
K. Khalaj, T. Islam, F. Doktor, A. Zani
(Toronto, Canada)
- 17. ESTABLISHMENT OF NEUROSPHERES FROM AMNIOTIC FLUID OF PREGNANCIES WITH DIAGNOSED SPINA BIFIDA (6 + 3 mins)**
M. Gazzaneo, G. Calà, G. Benedetti, J. Deprest, M.F.M. Gerli, G.G. Giobbe, P. De Coppi
(London, United Kingdom)
- 18. BEHAVIOR OF SACRAL NEURAL CREST CELLS IN AGANGLIONIC MOUSE GUT: ARE THEY UNABLE TO MIGRATE OR SURVIVE? (6 + 3 mins)**
N. Nakazawa-Tanaka, K. Miyahara, N. Fujiwara, M. Urao, A. Yamataka
(Tokyo, Japan)

12:15 – 12:45 **INVITED LECTURE**

ESTABLISHING HEALTHY IMMUNE-MICROBE INTERACTIONS EARLY IN LIFE (30 mins)
Petter Brodin
(Stockholm, Sweden)

12:45 – 13:30 **LUNCH**

13:30 – 15:30 **SCIENTIFIC SESSION III**

Chairs: *Helene Engstrand Lilja (Stockholm, Sweden)*
Mikko Pakarinen (Helsinki, Finland)

19. IMPACT OF EPITHELIAL CLAUDIN-4 AND LEUKOTRIENE B4 RECEPTOR 2 IN NORMOGANGLIONIC HIRSCHSPRUNG DISEASE COLON ON POST PULL-THROUGH ENTEROCOLITIS (6 + 3 mins)

K. Abe, M. Takeda, A. Ishiyama, S. Shibuya, R. Arie, Y. Yazaki, G. Miyano, M. Urao, T. Okazaki, H. Koga, G.J. Lane, A. Yamataka, K. Suda
(Tokyo, Japan)

20. ABDOMINAL ULTRASOUND FOR THE DIAGNOSIS OF NECROTIZING ENTEROCOLITIS: A SYSTEMATIC REVIEW AND META-ANALYSIS (6 + 3 mins)

N. Ganji, L. Anez-Bustillos, E. Palleri, R. Baertschiger, R. Faingold, A. Pierro
(Toronto, Canada)

21. PROTEOMIC SIGNATURE OF CONGENITAL DIAPHRAGMATIC HERNIA FROM HUMAN LUNG TISSUE SAMPLES (6 + 3 mins)

M. Jank, A.O. Aptekmann, D. Patel, M. Kraljevic, R. Balshaw, R. Zahedi, M. Boettcher, R. LeDuc, R. Keijzer
(Winnipeg, Canada)

22. ANGIOPOIETIN1 AMELIORATES LIPOPOLYSACCHARIDE-INDUCED ENDOTOXEMIA BY IMPROVING INTESTINAL VASCULAR PERMEABILITY IN A HIRSCHSPRUNG'S DISEASE MURINE MODEL (6 + 3 mins)

A. Ishiyama, K. Suda, X. Rao, M. Sun, G.J. Lane, A. Yamataka, H. Koga
(Tokyo, Japan)

23. DEVELOPMENT OF INDOCYANINE GREEN-LOADED NANOCAGES FOR IDENTIFICATION OF TUMOR MARGINS IN PEDIATRIC FLUORESCENCE-GUIDED SURGERY (6 + 3 mins)

I. Paraboschi, M. Sevieri, L. Sitia, S. Giuliani, E. Clementi, F. Corsi, S. Mazzucchelli, G. Pelizzo
(Milan, Italy)

24. EXTRINSIC FETAL PULMONARY COMPRESSION IN A SURGICAL CONGENITAL DIAPHRAGMATIC HERNIA RAT MODEL IS ASSOCIATED WITH THE OVEREXPRESSION OF PROTEINS RELATED TO THE APOPTOSIS AND SENESCENCE PATHWAYS (6 + 3 mins)

F. Ferrer-Marquez, N. Torlak, M. Oria, J.L. Peiro
(Cincinnati, USA)

25. Cancelled

26. PERITONEAL DRAINAGE VERSUS LAPAROTOMY AS PRIMARY SURGICAL INTERVENTION FOR SMALL INTESTINAL PERFORATION IN EXTREMELY LOW BIRTH WEIGHT INFANTS: A SYSTEMATIC REVIEW AND META-ANALYSIS (6 + 3 mins)

W. Zhu, Y. Liu, N. Ganji, H. Liang, A. Pierro, H. Zhu, Z. Lyu
(Shanghai, China)

27. QUEST FOR ENDOGENOUS RENAL STEM CELLS AS A TARGET FOR RENAL PRESERVATION IN OBSTRUCTIVE RENOPATHY (6 + 3 mins)

S. Sharma, R. Bhanot, P. Mathur, N. Bhardwaj, G. Singh, K. Sinha, D.K. Gupta

(New Delhi, India)

28. INTESTINAL ORGANOID: NEW INSIGHTS INTO HIRSCHSPRUNG'S DISEASE

(6 + 3 mins)

J. Bielanska, R. Angresius, Z. Huo, AIM Study Group, S. Holland-Cunz, S.J. Gros
(Basel, Switzerland)

29. A NEW IN-VITRO MODEL OF ALVEOLAR EPITHELIAL-ENDOTHELIAL CO-CULTURE

(6 + 3 mins)

M.E. Miscia, T. Benoist, D. Scaglioni, P. De Coppi, F. Michielin
(London, United Kingdom)

30. A NEW INNOVATIVE DEVICE FOR SAFE AND SUCCESSFUL NASOGASTRIC TUBE INSERTION WITH A BIOLOGICALLY TRANSPARENT ILLUMINATION IN PEDIATRIC PATIENTS (6 + 3 mins)

R. Satake, H. Nakamura, H. Yamakawa, N. Aoki, R. Tanaka, S. Yoshimoto, T. Okunobou, T. Doi
(Osaka, Japan)

31. YES-ASSOCIATED PROTEIN IS DYSREGULATED IN HUMAN CONGENITAL DIAPHRAGMATIC HERNIA PATIENTS DURING MID AND END GESTATION (6 + 3 mins)

Y. Miyake, M. Junk, D. Patel, A. Ozturk, O. Aubert, X. Ai, A. Yamataka, R. Keijzer
(Winnipeg, Canada)

32. THE EFFECT OF DNA APTAMER RAISED AGAINST RECEPTOR FOR ADVANCED GLYCATION END PRODUCTS (RAGE) IMPROVES LUNG INJURY IN SEPTIC MICE

(6 + 3 mins)

Y. Koga, N. Hasizume, M. Daisuke, H. Yoshida, T. Aiko, T. Kurahachi, H. Nakahara, N. Higashidate, A. Sotokawauchi, T. Kaji
(Kurume, Japan)

15:30 – 16:00 **COFFEE BREAK**

16:00 – 17:30 **SCIENTIFIC SESSION IV**

Chairs: *Florian Friedmacher (Frankfurt, Germany)*
 Takashi Doi (Osaka, Japan)

33. ROLE OF REMOTE ISCHEMIC CONDITIONING IN MODULATING INFLAMMATORY AND ANGIOGENIC RESPONSES AFTER MASSIVE BOWEL RESECTION: A MOUSE MODEL STUDY (6 + 3 mins)

D. Ko, H. Lee, J.K. Youn, H.-Y. Kim
(Seoul, South Korea)

- 34. SINGLE-STAGED IN VIVO CO-TRANSPLANTATION OF AUTOLOGOUS MUSCULAR AND MUCOSAL MICROGRAFTS IN A COMPOSITE TUBULAR URINARY SCAFFOLD**
(6 + 3 mins)
A.G. Clausen, N. Juul, M. Amoushahi, M. Fossum
(Copenhagen, Denmark)
- 35. ENGINEERING INTESTINAL ORGANOIDS** (6 + 3 mins)
C. Lee, B. Li, A. Zito, F. Balsamo, M. Yeganeh, D. Lee, A. Pierro
(Toronto, Canada)
- 36. TARGETING OF HYPOXIA-INDUCIBLE ENZYME CARBONIC ANHYDRASE IX IN PATIENT-DERIVED TUMOR MODELS** (6 + 3 mins)
Z. Huo, R. Bilang, J. Shi, C.T. Supuran, N. von der Weid, S. Holland-Cunz, I. Martin, A. Krieg, M.G. Muraro, S.J. Gros
(Basel, Switzerland)
- 37. IMPACT OF VESICULAR NUCLEOTIDE TRANSPORTER INHIBITOR ON INTESTINAL FAILURE-ASSOCIATED LIVER DISEASE IN SHORT BOWEL SYNDROME MODEL RATS**
(6 + 3 mins)
Y. Tsuruno, K. Sugita, A. Nagano, S. Onishi, Y. Tabata, C. Kedoin, M. Murakami, K. Yano, T. Kawano, N. Hasuzawa, M. Nomura, T. Kaji, Y. Bitoh, S. Ieiri
(Kagoshima, Japan)
- 38. NEUROBLASTOMA-DERIVED NEUROSPHERES: A NOVEL DISEASE MODEL IN THE FIELD OF FLUORESCENCE-GUIDED SURGERY** (6 + 3 mins)
M. Gazzaneo, L. Privitera, G. Benedetti, J. Neville, C. Himsworth, K. Chester, J. Anderson, G.G. Giobbe, P. De Coppi, S. Giuliani
(London, United Kingdom)
- 39. UNRAVELING THE POTENTIAL ROLE OF FBLL1, A PREDICTED RNA MODIFICATION ENZYME, IN HIRSCHSPRUNG'S DISEASE PATHOGENESIS** (6 + 3 mins)
H. Liang, H. Li, Z. Zhang, Y. Xiong, Q. Li, Z. Lyu, R. Liu, H. Zhu
(Shanghai, China)
- 40. ASPARTATE AMINOTRANSFERASE TO PLATELET RATIO IN BILIARY ATRESIA: PROGNOSTIC VALUE AND RELATION TO LIVER HISTOPATHOLOGY** (3 + 2 mins)
N. Novoseltsev, I. Nyholm, N. Sjöblom, J. Lohi, A. Mutka, M. Pihlajoki, M. Davenport, M. Hukkinen, M.P. Pakarinen
(Helsinki, Finland)
- 41. SEXUAL FUNCTION AND FERTILITY IN YOUNG FEMALE ADULTS SURGICALLY TREATED FOR ANORECTAL MALFORMATIONS** (3 + 2 mins)
J.N. Gertler, J. Oddsberg, A. Gunnarsdóttir, A. Svenningsson, T. Wester, L. Örtqvist
(Stockholm, Sweden)
- 42. WEDGE RESECTION FOR CONGENITAL PULMONARY MALFORMATIONS: IS SAVING LUNG PARENCHYMA THE BEST CHOICE FOR THE PATIENT IN THE SHORT AND LONG TERM? LOOKING FOR ANSWERS ON A LARGE SERIES** (3 + 2 mins)
M. Marinaro, I. Paraboschi, U.M. Pierucci, S. Costanzo, M. Barisella, M. Nebuloni, G. Pelizzo
(Milan, Italy)

- 43. NEURODEVELOPMENTAL AND PSYCHOSOCIAL OUTCOME AFTER NEONATAL SURGERY FOR CONGENITAL GASTROINTESTINAL MALFORMATIONS: A PROSPECTIVE SINGLE-CENTER COHORT STUDY (3 + 2 mins)**
J. Weber, E. Frankenberg, L. Wagenfeld, R. Dewitz, F. Friedmacher, U. Rolle, A. Allendorf
(Frankfurt, Germany)
- 44. WHAT CAN THE SIZE OF A URETEROCELE TELL US ABOUT ANATOMY AND OUTCOME? FINDINGS IN A COHORT OF 131 PATIENTS OVER 25 YEARS (3 + 2 mins)**
B. Haid, M. Kerling, N. Gisnapp, C. Strasser, J. Thueminger, J. Oswald
(Linz, Austria)
- 45. POTENTIAL PREDICTORS OF NECROTIZING ENTEROCOLITIS IN EXTREMELY LOW-BIRTH-WEIGHT INFANTS: ANALYSES OF COAGULATION AND FIBRINOLYSIS MARKERS AT BIRTH AT A SINGLE INSTITUTION DURING THE PAST DECADE (3 + 2 mins)**
K. Yano, K. Sugita, Y. Tsuruno, T. Harumatsu, M. Matsukubo, T. Kawano, M. Muto, M. Torikai, S. Ibara, T. Tokuhisa, S. Ieiri
(Kagoshima, Japan)
- 46. A 12-YEAR COHORT STUDY ON THE ECONOMIC AND CLINICAL IMPACT OF JEJUNAL TUBE FEEDING IN PEDIATRIC PATIENTS (3 + 2 mins)**
D. Faruqi, K. Omran, O. Awolaran, R. Vora, M. Upadhyaya
(London, United Kingdom)

19:30

GALA DINNER AT THE NATIONALMUSEUM

SATURDAY, 21ST SEPTEMBER 2024

8:30 – 10:00 **SCIENTIFIC SESSION V**

Chairs: *Gloria Pelizzo (Milan, Italy)*
 Balazs Kutasy (Stockholm, Sweden)

- 47. CAN HAIR FOLLICLE TRANSPLANTATION BE A PROMISING THERAPEUTIC APPROACH FOR NON-HEALING ULCERS AND BURN INJURY TREATMENT (6 + 3 mins)**
H. Jangir, A. Subramanian, S. Sharma, A.K. Agrawal, V. Arora, M. Jassal
(New Delhi, India)
- 48. DISCERNING COMPLEMENTARY PATHWAY OF STEM CELL PROLIFERATION FOR HEPATIC REGENERATION BY PARTIAL HEPATIC RESECTION IN EXTRAHEPATIC BILIARY ATRESIA (6 + 3 mins)**
S. Sharma, M. Tripathi, P. Das, D.K. Gupta
(New Delhi, India)
- 49. THE ROLE OF ADENOVIRUS-ASSOCIATED CELLULAR SURFACE RECEPTORS AND DNA SENSING MOLECULES IN ACUTE APPENDICITIS (6 + 3 mins)**
M. Reismann, N. Kiss, J.F. Svensson, S. Warmann, T. Wester
(Berlin, Germany)
- 50. EXPERIENCE WITH THE PYELO-URETERAL-MAGNETIC-ANASTOMOSIS (PUMA) DEVICE IN DIFFERENT PORCINE MODELS (6 + 3 mins)**
T. Cserni, D. Csukas, A. Ferencz, R. Kubiak
(Manchester, United Kingdom)
- 51. REMOTE ISCHEMIC CONDITIONING (RIC) ATTENUATES INFLAMMATION, PROMOTES PROLIFERATION AND ANGIOGENESIS ASSOCIATED WITH ESOPHAGEAL ANASTOMOTIC STRICTURES IN RATS (6 + 3 mins)**
J.K. Youn, H.-R. Lee, D. Ko, H.-Y. Kim
(Seoul, South Korea)
- 52. T-CELL THERAPY IN PEDIATRIC SOLID TUMORS: UPDATE OF A PRECLINICAL PROSPECTIVE STUDY (6 + 3 mins)**
K. Mebelli, M. Gazzaneo, P. Comoli, M. Zecca, D. Alberti, M. Cheli, M. Bertozzi, G. Riccipetoni
(Pavia, Italy)
- 53. DIPEPTIDYL PEPTIDASE IV INHIBITORS REDUCE HEPATIC FIBROSIS AND LIPID ACCUMULATION IN RAT INTESTINAL FAILURE-ASSOCIATED LIVER DISEASE MODELS (6 + 3 mins)**
R. Sueyoshi, S. Yamada, J. Ishii, M. Kawakami, K. Tanabe, O. Segawa
(Tokyo, Japan)
- 54. AN ENGINEERED 3D SELF-ASSEMBLY TISSUE MODEL FOR VAGINAL WOUND HEALING (6 + 3 mins)**
D. Rootsi, D. Brownell, S. Chabaud, C.I. Chamorro, S. Bolduc, M. Fossum
(Stockholm, Sweden)

55. HEPATOPROTECTIVE EFFECT OF CURCUMIN AND ITS COMBINATION WITH PIPERINE IN EXPERIMENTALLY INDUCED LIVER FIBROSIS IN RATS: A COMPARATIVE ANALYSIS

(6 + 3 mins)

S. Sharma, H. Jangir, A. Subramanian

(New Delhi, India)

56. GLUCAGON-LIKE PEPTIDE-2 REINFORCES THE TIGHT JUNCTION OF THE SMALL INTESTINAL EPITHELIUM AGAINST THE STIMULATION OF LIPOPOLYSACCHARIDE

(6 + 3 mins)

Y.K. Koga, N.H. Hashizume, H.Y. Yoshida, T.A. Aikoh, T.K. Kurahachi, S.T. Tsuruhisa, H.N.

Nakahara, N.H. Higashidate, T.K. Kajii

(Kurume, Japan)

10:00 – 10:30 **COFFEE BREAK**

10:30 – 12:00 **SCIENTIFIC SESSION VI**

Chairs: *Elke Zani-Ruttenstock (Toronto, Canada)*

Haitao Zhu (Shanghai, China)

57. CANCELLED

58. DISSECTING THE DYNAMICS OF CELL DEATH PATHWAYS IN HIRSCHSPRUNG'S DISEASE: A COMPARATIVE ANALYSIS OF VIABLE AND NON-VIABLE CELLS UNDER PROINFLAMMATORY CONDITIONS (3 + 2 mins)

Z. Li, J. Hagens, C. Philippi, H.C. Schmidt, P. Schuppert, L. Pagerols Raluy, M. Trochimiuk, K. Reinshagen, C. Tomuschat

(Hamburg, Germany)

59. EFFECT OF DRINKING WATER QUALITY ON FETAL DEVELOPMENT: A LITERATURE REVIEW (3 + 2 mins)

C. Riboni, S. Holland-Cunz, S. Gros

(Basel, Switzerland)

60. ALPHA-1-ANTITRYPSIN IMPROVES ANASTOMOTIC HEALING IN INTESTINAL EPITHELIAL CELLS MODEL (3 + 2 mins)

N. Schukfeh, S. Janciauskiene, G. Vieten, K. Sivaraman, A. Schmidt, R. Olmer, J. Dingemann

(Hannover, Germany)

61. PILOT IMPLEMENTATION STUDY INVESTIGATING THE INFLUENCE OF GENE POLYMORPHISM ON PEDIATRIC UROLITHIASIS IN A LOCAL COMMUNITY (3 + 2 mins)

M. Aboud, M. Kadhim (Al Qadisiya, IRAQ)

- 62. THORACOTOMY VS. THORACOSCOPY IN NEONATES: A 15 YEAR COMPARISON OF POST-OPERATIVE PAIN AND ANALGESIA (3 + 2 mins)**
S. Tiboni, R. Verma, K. Bhandarkar, S. Eaton, S. Loukogeorgakis, D. Mullassery, S. Basson, S. Blackburn, K. Cross, J. Curry, S. Giuliani, S. Hannam, G. Williams, P. De Coppi
(London, United Kingdom)
- 63. COMPARING THREE TYPES OF RETROPERITONEAL PYELOPLASTY (OPEN, LAPAROSCOPIC, AND ROBOT-ASSISTED LAPAROSCOPIC) IN CHILDREN WITH URETEROPELVIC JUNCTION OBSTRUCTION AT A SINGLE INSTITUTE: A FIRST REPORT (3 + 2 mins)**
M. Tanaka, H. Koga, J. Ishi, S. Yoshida, K. Suda, S. Shibuya, T. Ochi, R. Arie, G.J. Lane, A. Yamataka
(Tokyo, Japan)
- 64. POSTPRANDIAL INTESTINAL PERFUSION IN TERM AND PRETERM INFANTS: IMPLICATIONS FOR PREVENTION OF NECROTIZING ENTEROCOLITIS (3 + 2 mins)**
N. Ganji, Y. Wu, X. Chen, Y. Huang, R. Faingold, H. Zhu, A. Pierro
(Toronto, Canada)
- 65. THE CONNECT TRIAL: FIRST PROGRESS REPORT (3 + 2 mins)**
M.J.P. Zuidweg, L.W.J. Dossche, E.E.M. Nouwens, R.M.H. Wijnen, J.M. Schnater
(Rotterdam, The Netherlands)
- 66. FETAL CYSTOSCOPY (FC) AND VESICOAMNIOTIC SHUNTING (VAS) IN LOWER URINARY TRACT OBSTRUCTION (LUTO): A META-ANALYSIS OF LONG-TERM OUTCOME AND CURRENT TECHNICAL LIMITATIONS (3 + 2 mins)**
U.M. Pierucci, I. Paraboschi, M. Peycelon, G. Pelizzo, R. Ruano
(Milan, Italy)
- 67. NEONATAL INTESTINAL VOLVULUS: MIDGUT VOLVULUS WITH MALROTATION VERSUS SEGMENTAL VOLVULUS WITHOUT MALROTATION (3 + 2 mins)**
R. Abiko, S. Shibuya, M. Tanaka, K. Yoshizawa, H. Okano, T. Irie, T. Kasai, G.J. Lane, S. Takamizawa, H. Koga
(Tokyo, Japan)
- 68. CAN WE PREVENT RECURRENCE AND CONTRALATERAL METACHRONOUS HERNIA IN THE PATIENTS AFTER LAPAROSCOPIC PERCUTANEOUS EXTRAPERITONEAL CLOSURE FOR INGUINAL HERNIA? (3 + 2 mins)**
H. Miyake, M. Yamoto, A. Nomura, Y. Sugai, Y. Goda, Y. Yamashiro, K. Fukumoto
(Shizuoka, Japan)
- 69. ROLE OF PERCUTANEOUS TRANSHEPATIC BILIARY DRAINAGE FOR MANAGING BILE LAKE FORMATION AFTER KASAI PORTOENTEROSTOMY (3 + 2 mins)**
A. Castrillo, S. Shibuya, E. Ueda, M. López, G.J. Lane, A. Yamataka, H. Koga
(Tokyo, Japan)
- 70. IMPACT OF SOCIOECONOMIC AND GEOGRAPHICAL FACTORS ON CLINICAL CARE OF BILIARY ATRESIA PATIENTS AFTER KASAI PORTOENTEROSTOMY OVER THE SHORT-TERM AND LONG-TERM DURATION: A CROSS-SECTIONAL STUDY (3 + 2 mins)**
S. Solanki, P. Singhai, R.P. Kanojia, J.K. Mahajan, P.K. Gupta, S.B. Lal
(Chandigarh, India)

71. GLOBAL PREVALENCE OF ESOPHAGEAL ATRESIA AND ITS ASSOCIATED RISK FACTORS: A SYSTEMATIC REVIEW AND META-ANALYSIS (3 + 2 mins)

S. Yan, H. Liang, N. Ganji, Y. Huang, Z. Chen, T. Wu, Z. Lyu, J. Chen, A. Pierro, H. Zhu
(Fujian, China)

72. LONG-TERM OUTCOMES OF FEMALE AND MALE CONGENITAL DIAPHRAGMATIC HERNIA SURVIVORS (3 + 2 mins)

M. Jank, C. Singh, G. Farjam, R. Balshaw, M. Boettcher, S.A. Lum Min, R. Keijzer
(Winnipeg, Canada)

73. FIFTEEN YEARS OF SURGERY FOR CONGENITAL PULMONARY MALFORMATIONS (CPM): RETROSPECTIVE VIEW AND CURRENT VALUE OF THE SURGICAL APPROACH (3 + 2 mins)

S. Costanzo, I. Paraboschi, U.M. Pierucci, M. Marinaro, M. Barisella, M. Nebuloni, G. Pelizzo
(Milan, Italy)

74. THE ROLE OF TUMOR INFLAMMATORY MICROENVIRONMENT (TME) IN CONGENITAL LUNG MALFORMATIONS (CLM): UNCOVERING THE BASIS FOR POSSIBLE MALIGNANT TRANSFORMATION (3 + 2 mins)

I. Paraboschi, U.M. Pierucci, S. Costanzo, M. Barisella, M. Nebuloni, G. Pelizzo
(Milan, Italy)

12:00 – 13:00 **LUNCH**

13:00 – 14:30 **SCIENTIFIC SESSION VII**

Chairs: *Takaharu Oue (Hyogo, Japan)*
 Jens Dingemann (Hannover, Germany)

75. PREOPERATIVE IMAGING ASSESSMENT OF THE RISK OF THE ADAMKIEWICZ ARTERY INJURY IN LOWER MEDIASTINAL NEUROBLASTOMA (3 + 2 mins)

A. Yoneda, E. Watanabe, Y. Yamamoto, O. Miyazaki, Y. Tsutsumi, S. Yamagishi, A. Ichinose, T. Hirokawa, M. Fujiogi, T. Mori, T. Ishimaru, N. Shimojima, K. Matsumoto
(Tokyo, Japan)

76. ABDOMINAL COMPLIANCE OPTIMIZATION FOR LAPAROSCOPY SURGERY IN PEDIATRIC PATIENTS USING SWARM INTELLIGENCE (3 + 2 mins)

F. Cassaro, L. Carnevale, P. Antonuccio, S. D'Antoni, S. Arena, D. Basilotta, A.S. Montalto, P. Impellizzeri, M. Villari, C. Romeo
(Messina, Italy)

77. DIAGNOSIS AND TREATMENT OF CONGENITAL TRACHEOBRONCHIAL REMNANTS WITH OR WITHOUT THE PRESENCE OF ESOPHAGEAL ATRESIA (3 + 2 mins)

J.K. Youn, D. Ko, H.-Y. Kim
(Seoul, South Korea)

78. ROLE OF PS6, COX2, MMP 9, MTOR IN CHOLEDOCHAL CYST MALFORMATIONS: AN IMMUNOHISTOCHEMICAL EVIDENCE (3 + 2 mins)

A. Verma, S. Anand
(New Delhi, India)

- 79. RECOGNITION OF FREE AIR ON NEONATAL ABDOMINAL RADIOGRAPHS USING A CONVOLUTIONAL NEURAL NETWORK (3 + 2 mins)**
Z. Wang, A. Ashraf, J.R. Bonanni, G. Retrosi
(Winnipeg, Canada)
- 80. VIRTUAL REALITY AND PATIENT-SPECIFIC-ORIENTATION IN PEDIATRIC SURGERY (3 + 2 mins)**
M. Marinaro, A. Musitelli, E. Durante, M. Ceresola, C. Ardenghi, U.M. Pierucci, G. Lanfranchi, S. Costanzo, M. Roveri, F. Rizzetto, M. Vertemati, G. Pelizzo, P. Milani
(Milan, Italy)
- 81. ARTIFICIAL INTELLIGENCE FOR PEDIATRIC SURGICAL PLANNING: EXAMPLE OF A MATHEMATICAL MODEL (3 + 2 mins)**
S. Costanzo, M. Doneda, G. Pelizzo, G. Carello
(Milan, Italy)
- 82. SURGICAL OUTCOMES FOR NON-HIGH-RISK ABDOMINAL NEUROBLASTOMA IN RELATION TO THE RENAL VESSELS AND THE TUMOR (3 + 2 mins)**
Y. Yamamoto, A. Yoneda, O. Miyazaki, K. Matsumoto, S. Yamagishi, A. Ichinose, T. Hirokawa, M. Fujiogi, T. Ishimaru, N. Shimojima
(Tokyo, Japan)
- 83. ERYTHROPOIETIN-CONTAINING HYDROGEL – A NEW “EPOCH” IN THE TOPICAL TREATMENT OF CHILDHOOD THERMAL INJURIES? A STUDY PROPOSAL (3 + 2 mins)**
A. Schock, T.R. Adler, K. Großer, H.-G. Machens, O.H.-J. Muensterer
(Munich, Germany)
- 84. CONGENITAL DIAPHRAGMATIC HERNIA AND CLEFT LIP AND PALATE: LOOKING FOR A COMMON GENETIC ETIOLOGY (3 + 2 mins)**
P. Nord, A.H. Ebanks, P. Peterson, M.P. Hartting, C. Mesas Burgos for the Congenital Diaphragmatic Hernia Study Group
(Stockholm, Sweden)
- 85. PUBLIC AWARENESS OF TISSUE ENGINEERING: LITERATURE REVIEW AND OESOPHAGEAL ATRESIA PATIENT-FOCUSSED ENGAGEMENT (3 + 2 mins)**
N. Durkin, M. Pellegrini, V. Karaluka, G. Slater, D. Leyden, S. Eaton, P. De Coppi
(London, United Kingdom)
- 86. SUCCESS OF ANTEGRADE CONTINENCE ENEMA (ACE) IN PEDIATRIC PATIENTS WITH DEFECATION DISORDERS (3 + 2 mins)**
M.M. Tervahartiala, A.I. Koivusalo, M.P. Pakarinen
(Helsinki, Finland)
- 87. SURGERY FOR CONGENITAL LUNG MALFORMATIONS (CLM) IN ASYMPTOMATIC INFANTS: A RETROSPECTIVE STUDY ON A LARGE COHORT OF PATIENTS (3 + 2 mins)**
U.M. Pierucci, I. Paraboschi, S. Costanzo, M. Marinaro, M. Barisella, M. Nebuloni, G. Pelizzo
(Milan, Italy)
- 88. THE COMPLEXITIES OF FETAL ANALGESIA: INTEGRATING PHYSIOLOGICAL INSIGHTS AND CLINICAL ETHICS (3 + 2 mins)**
U.M. Pierucci, A. Camporesi, I. Paraboschi, M. Peycelon, R. Ruano, C.V. Bellieni, G. Pelizzo
(Milan, Italy)

89. ASSESSING THE ROLE OF ROUTINE POSTNATAL CHEST X-RAY IN ASYMPTOMATIC CHILDREN WITH CONGENITAL LUNG MALFORMATIONS (3 + 2 mins)

L.W.J. Dossche, C.S. van den Aardweg, C.M. Kersten, J. van Rosmalen, R.M.H. Wijnen, H. Jsselstijn, J.M. Schnater
(Rotterdam, The Netherlands)

90. SPATULATED UMBILICAL CORD TECHNIQUE EMBRACING WHARTON'S JELLY MESENCHYMAL STEM CELLS FOR PRIMARY REPAIR OF GASTROSCHISIS: A MULTICENTER EXPERIENCE (3 + 2 mins)

S. Sharma, S.M. Mansour, T.T. Tsang
(New Delhi, India)

91. COMPARATIVE OUTCOMES OF LAPAROSCOPIC GASTROSTOMY IN PEDIATRIC PATIENTS: A WEIGHT-BASED ANALYSIS (3 + 2 mins)

C. Holland, F. Youssef, G. Remple, G. Retrosi
(Winnipeg, Canada)

92. ANAL CANAL DUPLICATION: CHARACTERISTICS, MANAGEMENT AND OUTCOMES OF A RARE MALFORMATION (3 + 2 mins)

K. Mattila, A. Mutanen, A. Raitio, M. Pakarinen
(Helsinki, Finland)

14:30 – 15:00 **COFFEE BREAK**

15:00 – 16:15 **SCIENTIFIC SESSION VIII**

Chairs: *Nana Nakazawa-Tanaka (Tokyo, Japan)*
 Udo Rolle (Frankfurt, Germany)

93. INCIDENCE OF COVID-19 IN CHILDREN WITH CONGENITAL SURGICAL ANOMALIES DURING THE PANDEMIC (3 + 2 mins)

Y. Miyake, S.A. Lum Min, C. Singh, A. Yamataka, R. Keijzer
(Winnipeg, Canada)

94. CHILDREN WITH CONGENITAL SURGICAL ANOMALIES ARE MORE PRONE TO TRAUMA THAN CONTROLS (3 + 2 mins)

O. Asemota, K. MacGregor, E. Okolo, S.A. Lum Min, B.J. Hancock, R. Keijzer
(Winnipeg, Canada)

95. POSTNATAL OUTCOMES OF PRENATALLY DIAGNOSED CONGENITAL ANOMALIES OF THE KIDNEY AND URINARY TRACT (3 + 2 mins)

S. Shibuya, Y. Yamamoto, N. Matsuzawa, J. Ishii, S. Yoshida, G.J. Lane, A. Itakura, H. Koga
(Tokyo, Japan)

96. LOW RATE OF COMPLICATIONS OF BALLOON DILATATIONS FOR ANASTOMOTIC STENOSIS IN ESOPHAGEAL ATRESIA PATIENTS: TIME TO CHANGE THE MANAGEMENT? (3 + 2 mins)

J. Weidner, U. Baumann, T. König, J. Dingemann, J. Brendel
(Hannover, Germany)

- 97. PRIMARY OBSTRUCTIVE NON-REFLUXIVE MEGAURETERS: ARE URETERAL DIAMETER AND VISIBLE PERISTALSIS ON ULTRASOUND VALID PREDICTORS FOR OUTCOME?** (3 + 2 mins)
B. Haid, F. Rameseder, C. Gernhold, J. Thueminger, J. Oswald
(Linz, Austria)
- 98. DO MICRORNAS HOLD THE KEY TO UNDERSTANDING HYPOSPADIAS?** (3 + 2 mins)
M. Amoushahi, P.H. Jørgensen, A.B. Kjeldgaard, E. Padi, M. Fossum
(Copenhagen, Denmark)
- 99. DYNAMIC CHEST RADIOGRAPHY FOR PEDIATRIC PATIENTS: CLINICALLY APPLICABLE FOR THORACIC AND RESPIRATORY DISEASE?** (3 + 2 mins)
T. Oue, K. Deguchi, M. Watanabe, M. Kamiyama, T. Sakai, Y. Tazuke, H. Okuyama
(Hyogo, Japan)
- 100. IMPACT OF CONGENITAL HEART DISEASE ON ESOPHAGEAL ANASTOMOSIS IN CHILDREN WITH ESOPHAGEAL ATRESIA** (3 + 2 mins)
C. Hisamatsu, W. Sasaki, A. Uematsu, S. Yoshimura, K. Fukui, K. Uemura, Y. Tomioka, S. Murakami, K. Morita, A. Yokoi, T. Hatakeyama
(Kobe, Japan)
- 101. A 10-YEAR EVALUATION OF PEDIATRIC CHOLECYSTECTOMY** (3 + 2 mins)
D. Faruqi, K. Omran, O. LadipoAjayi, M. Upadhyaya
(London, United Kingdom)
- 102. UTILITY OF URETERAL DIAMETER RATIO FOR CLINICAL DECISION-MAKING IN CHILDREN WITH VESICoureTERAL REFLUX: A SYSTEMATIC REVIEW AND META-ANALYSIS** (3 + 2 mins)
P. Agarwal, N. Krishnan, D. Kandasamy, A. Verma, D.K. Yadav, S. Sharma, S. Anand
(New Delhi, India)
- 103. FACTORS INFLUENCING OUTCOMES IN NEONATAL ABDOMINAL SURGERY: A RETROSPECTIVE COHORT STUDY** (3 + 2 mins)
K. Olarachin, P. Sutthatar, K. Decharun, P. Rajatapiti, S. Reukvibunsi, P. Vejchapipat, N. Srisan
(Bangkok, Thailand)
- 104. LAPAROSCOPIC-ASSISTED URETERORENOSCOPY FOR STONE REMOVAL IN A 10-MONTH-OLD INFANT WITH CYSTINURIA AND ACUTE POSTRENAL KIDNEY FAILURE: A VIDEO CASE STUDY** (3 + 2 mins)
A.D. Hofmann, J. Dingemann, J. Brendel, J.F. Kuebler, M. Akkoyun
(Hannover, Germany)
- 105. ELASTIC STABLE INTRAMEDULLARY NAILING IN THE TREATMENT OF DIAPHYSEAL FRACTURES IN CHILDREN** (3 + 2 mins)
B.M.C. Evers, S. Minaev, A. Isaeva
(Hannover, Germany)
- 106. A SYNDROMIC TRIAD OF PERSISTENT UROGENITAL SINUS, HERLYN-WERNER-WUNDERLICH AND PRUNE BELLY SYNDROME IN A NEONATE** (3 + 2 mins)
E. Grömping, H.C. Schmidt, J. Hagens, K. Reinshagen, C. Tomuschat
(Hamburg, Germany)

**107. PROLONGED COMPLICATION INTUSSUCEPTION CAUSED BY MECKEL'S
DIVERTICULUM IN 1 YEAR-OLD GIRL WITH LAPAROTOMY AND ANASTOMOSIS ILEO-
COLICA: A CASE REPORT (3 + 2 mins)**

I.A.A.S. Sofyan, V.V.Y. Yuleto, B.S. Santoso, B. Barmadisatrio, P. Purnawirawanto
(Surabaya, Indonesia)

16:15

CLOSING REMARKS

Prem Puri