



# ISPSR 2018

31<sup>st</sup> International Symposium on Pediatric Surgical Research

Workshop on Controversies and Challenges  
in Pediatric Surgery

Promoted by  
Unit of Pediatric Surgery  
University of Messina  
AOU G. Martino



October 12-14 2018  
Villa Diodoro  
Taormina (Italy)

[www.ispsr2018taormina.com](http://www.ispsr2018taormina.com)

# ISPSR 2018

## 31<sup>st</sup> International Symposium on Pediatric Surgical Research

Dear Colleagues and friends,

It is a great pleasure to welcome you to the 31<sup>st</sup> International Symposium on Pediatric Surgical Research in Taormina, Sicily from October 12-14, 2018. Italy will host this Symposium for the fourth time after, Rome, Florence and Genova. Taormina, founded in the 4<sup>th</sup> century BC, is a beautiful hilltop resort town in the east coast of Sicily in the province of Messina. It sits near Mount Etna, the European highest active volcano and has become Sicily's top tourist destination. Taormina boasts a rich historical, artistic and cultural heritage, which combined with the ideal climate and beautiful natural scenery, has attracted visitors from all over the world for years and years.

Last year at the ISPSR 2017 meeting in New Delhi the organizers incorporated a one day Symposium on an "Update on Newborn and Fetal Surgery". This was a great success and attracted many more delegates. This year we will have a one day workshop on "Controversies and Challenges in Pediatric Surgery" on October 12. Several internationally renowned pediatric surgeons will be contributing to the workshop.

The 31<sup>st</sup> International Symposium on Pediatric Research aims to provide a unique opportunity for young pediatric surgeons and research fellows to present their clinical and laboratory research. This meeting will bring together clinicians and basic scientists from all over the world in order to exchange their knowledge on all aspects of pediatric surgical diseases. Over the years, the International Symposium on Pediatric Surgical Research has become a global research forum for presenting high quality research.

We look forward to welcoming you to Taormina.

Carmelo Romeo  
Local Organizing Chairman



Prem Puri  
Chairman Scientific Committee



Taormina - Villa Diodoro  
October 12-14, 2018



### **Patronage**

University of Messina

Department of Human Pathology of Adult and Adolescent "Gaetano Barresi"

A.O.U. Gaetano Martino

SICP Italian Society of Pediatric Surgery

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# Workshop on Controversies and Challenges in Pediatric Surgery October 12<sup>th</sup>, 2018

**7:00 am** Registration  
**7:45 am** Opening Remarks  
*Carmelo Romeo (Messina, Italy)*  
*Prem Puri (Dublin, Ireland)*

**8:00-10:00** **Session I**  
*Chairs: Giovanna Ricciettoni (Milan, Italy) - Michael Höllwarth (Graz, Austria)*

**Stem Cells and Regenerative Medicine**  
*Paolo De Coppi (London, UK)*

**The Ultimate Solution for Intestinal Failure: Tissue Engineered Small Intestine, Is It Possible?**  
*Marshall Z Schwartz (Philadelphia, USA)*

**Short Bowel Syndrome**  
*Michael Höllwarth (Graz, Austria)*

**Necrotizing Enterocolitis**  
*Agostino Pierro (Toronto, Canada)*

**10:00-10:30** **Coffee Break**

**10:30-12:00** **Session II**  
*Chairs: Massimo Rivosecchi (Roma, Italy) - Gloria Pelizzo (Palermo, Italy)*

**Maternal, Fetal, Neonatal and Infant Outcomes following Fetal Surgery for Spina Bifida**  
*Martin Meuli (Zurich, Switzerland)*

**Antenatal Management of Congenital Diaphragmatic Hernia**  
*Richard Keijzer (Winnipeg, Canada)*

**Management of Congenital Pulmonary Airway Malformations**  
*Juan Tovar (Madrid, Spain)*

**12:00-13:30** **Session III**  
*Chairs: Mario Lima (Bologna, Italy) - Piergiorgio Gamba (Padova, Italy)*

**What is the Evidence for Minimal Invasive Surgery in Pediatric Surgery**  
*Benno Ure (Hanover, Germany)*

**Management of Pancreaticobiliary Malunion in Children**  
*Atsuyuki Yamataka (Tokyo, Japan)*

**Complicated Wilms Tumour Including Intracardiac Extension and Bilateral Disease**

*Alastair Millar (Cape town, South Africa)*

**13:30-14:30 Lunch**

**14:30-16:00 Session IV**

*Chairs: Jack Elder (Boston, USA) - Max Cervellione (Manchester, UK)*

**Appraisal of Clinical Practice Guidelines for Urinary Tract Infections in Children**

*Jack Elder (Boston, USA)*

**Controversial Issues in the Endoscopic Treatment of Vesicoureteral Reflux**

*Prem Puri (Dublin, Ireland)*

**Strategy and Surgical Technique for a Reliable and Successful Closure of Bladder Exstrophy**

*Max Cervellione (Manchester, UK)*

**16:00-16:30 Coffee Break**

**16:30-18:30 Session V**

*Chairs: Mikko Pakarinen (Helsinki, Finland) - Marshall Schwartz (Philadelphia, USA)*

**Complex Oesophageal Atresia**

*Arnold Coran (Ann Arbour, USA)*

**Longterm Outcome and Quality of Life after Treatment of Hirschsprung's Disease**

*Risto Rintala (Helsinki, Finland)*

**Urological and Sexual Outcome in Patients with Hirschsprung's Disease**

*Mikko Pakarinen (Helsinki, Finland)*

**Management of Hypoganglionosis**

*Tomoaki Taguchi (Fukuoka, Japan)*

**Medical Management of Acute Appendicitis**

*Tomas Wester (Stockholm, Sweden)*

**19:00**

**Opening Ceremony and Welcome Reception  
of 31<sup>st</sup> International Symposium on Pediatric Surgical Research**

*Carmelo Romeo (Local Organizing Chairman)*

*Local Authorities*

*Prem Puri (Chairman Scientific Committee)*

**20:00**

**Social Dinner**

31<sup>st</sup> INTERNATIONAL SYMPOSIUM ON PEDIATRIC  
SURGICAL RESEARCH  
October 13-14, 2018

Scientific Sessions  
Oral Communications  
Poster Exhibition

SATURDAY, 13<sup>TH</sup> OCTOBER, 2018

07:30-08:30 REGISTRATION

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

*Chairs: Juan Tovar (Madrid, Spain)*  
*Risto Rintala (Helsinki, Finland)*  
*Carmelo Romeo (Messina, Italy)*

1. **Altered expression of inflammasomes in Hirschsprung's disease (8 mins)**  
*Nakamura H, O'Donnell AM, Tomuschat C, Coyle D, Marayati NF, Puri P (Dublin, Ireland)*
2. **Expression of dispatched RND transporter family member 1 is decreased in the diaphragmatic and pulmonary mesenchyme of nitrofen-induced congenital diaphragmatic hernia (8 mins)**  
*Takahashi T, Friedmacher F, Zimmer J, Puri P (Dublin, Ireland)*
3. **Effective spheroids transplantation of SHED-derived hepatocytes-like cells in liver fibrosis mice (8 mins)**  
*Takahashi Y, Yuniartha R, Yamaza T, Kirino K, Yanagi Y, Matsuura T, Taguchi T (Fukuoka, Japan)*
4. **Exosome protein content plays a crucial role in the paracrine signaling of amniotic fluid stem cells (8 mins)**  
*Antounians L, Zani A (Toronto, Canada)*
5. **Circular RNAs are highly dysregulated in lungs from patients with congenital diaphragmatic hernia (8 mins)**  
*Wagner R, Khanamoui S, Ayoub L, Jah A, Mahood T, Khoshgoo N, Lacher M, Keijzer R (Winnipeg, Canada)*

6. **Neonatal intestinal organoids to study ex vivo intestinal epithelial disorders (8 mins)**  
*Li B, Lee C, Cadete M, Miyake H, Pierro A (Toronto, Canada)*
7. **Intestinal mesangioblast cells as putative source for intestinal smooth muscle regeneration (8 mins)**  
*Perin S, McCann C, Natarajan D, De Coppi P, Thapar N (London, UK)*
8. **Functional engraftment of orthotopic decellularised pig stomach in mice undergoing partial gastrectomy (8 mins)**  
*Zambaiti E, Rizzi E, McCann C, Scottoni F, Thapar N, Russo S, Eaton S, Pellegata AF, De Coppi P (London, UK)*
9. **Abnormal Scn1b and Fxyd1 gene expression in the pulled through ganglionic colon may influence functional outcome in patients with Hirschsprung's disease (8 mins)**  
*O' Donnell AM, Nakamura H, Tomuschat C, Marayati NF, Puri P (Dublin, Ireland)*
10. **Assessment of the nitrofen model of congenital diaphragmatic hernia and its dysregulated signalling pathways (8 mins)**  
*Montalva L, Zani A (Toronto, Canada)*

**10:30-11:00 COFFEE BREAK**

**11:00-13:00 SCIENTIFIC SESSION II**

*Chairs: Prem Puri (Dublin, Ireland)  
Atsuyuki Yamataka (Tokyo, Japan)  
Augusto Zani (Toronto, Canada)*

11. **Maternal nitrite administration rescues the median wall thickness of pulmonary arterioles in CDH rat model (6 mins)**  
*Figueira RL, Costa KM, Nour AB, Tanus Dos Santos JE, Ferreira GC, Fabro AT, Sbragia L (Sao Paulo, Brazil)*
12. **Transport on extracorporeal membrane oxygenation for congenital diaphragmatic hernia: a unique center experience (6 mins)**  
*Mesas Burgos C, Frenckner B, Ghaffarpour N, Fletcher-Sandersjoo A, Broman LM (Stockholm, Sweden)*
13. **Amniotic fluid stem cell exosomes promote epithelial differentiation in the hypoplastic lungs of fetuses with congenital diaphragmatic hernia (6 mins)**  
*Liu B, Antounians L, Tzanetakos A, Biouss G, Stasiewicz M, Montalva L, Zani A (Toronto, Canada)*



14. **Endoplasmic reticulum stress is activated in hypoplastic lungs of fetuses with congenital diaphragmatic hernia, but is rescued by administration of amniotic fluid stem cells (6 mins)**  
*Tzanetakis A, Antounians L, Belfiore A, Pellerito O, Liu B, Stasiewicz M, Zani A (Toronto, Canada)*
15. **Exploring the role of the aryl hydrocarbon receptor in nitrofen-induced abnormal lung development and congenital diaphragmatic hernia (6 mins)**  
*Tse WH, De Leon N, Falk L, Patel D, Keijzer R (Winnipeg, Canada)*
16. **High-intensity Focused Ultrasound; Balloon disruption after fetal endoscopic tracheal occlusion (6 mins)**  
*Osawa S, Ando S, Irie R, Nakayama N, Watarai Y, Chiba T (Tokyo, Japan)*
17. **The impact of critical congenital heart disease on the outcome of infants with congenital diaphragmatic hernia (6 mins)**  
*Montalva L, Chiu P, Zani A (Toronto, Canada)*
18. **In vitro and in vivo study of chloroprocaine release from a new implantable nanodevice in a piglet postoperative pain model: experimental study of post-operative pain management (6 mins)**  
*Filisetti C, De Gregori M, Cobianchi L, Dionigi P, Riccipettoni G (Milan, Italy)*
19. **The role of mesenchymal stem cells in the tumorigenesis and pulmonary damage in congenital and genetic surgical lung diseases (6 mins)**  
*Pelizzo G, Girgenti V, Mura G, Puglisi A, Avanzini MA, Calcaterra V (Palermo, Italy)*
20. **Oncogenic copy number variants in congenital lung malformations in children (6 mins)**  
*Pederiva F, Candilera V, Casagrande A, Barbi E, Pecile V, Gamba PG, Schleeff J (Trieste, Italy)*
21. **Laryngomicrosurgery for laryngomalacia: a single center 10 years' experience (3 mins)**  
*Takahashi T, Fukumoto K, Yamoto M, Nakaya K, Sekioka A, Nomura A, Yamada Y, Urushihara N (Shizuoka, Japan)*
22. **Establishment of a biobank for human lung tissues of congenital pulmonary airway malformation (3 mins)**  
*Richard Wagner, Lojine Ayoub, Henry Li, Shana Khanamoui, Daywin Patel, Camelia Stefanovici, Martin Lacher, Richard Keijzer (Winnipeg, Canada)*
23. **Preoperative computed tomography for congenital lung anomalies. Impact of age and slice thickness on image quality (3 mins)**  
*Shibuya S, Ochi T, Miyano G, Koga H, Lane JG, Yamataka A (Tokyo, Japan)*



**13:00-14:00 LUNCH**

**13:30-14:30 POSTER WALK I**

*Chairs: Florian Friedmacher (London, UK)  
Sebastiano Cacciaguerra (Catania, Italy)*

**13:30-14:30 POSTER WALK II**

*Chairs: Akihiro Yoneda (Osaka, Japan)  
Hiroki Nakamura (Dublin, Ireland)*

**14:30-16:00 SCIENTIFIC SESSION III**

*Chairs: Agostino Pierro (Toronto, Canada)  
Arnold Coran (Ann Arbor, USA)  
Igor Sukhotnik (Haifa, Israel)*

**24. Transplanted SOX10-Venus mouse enteric neural crest-derived cells colonise the aganglionic colon in the Hirschsprung's mouse model (6 mins)**

*Fujiwara N, Miyahara K, Nakazawa-Tanaka N, Akazawa C, Yamataka A (Tokyo, Japan)*

**25. Assisted reproductive technology and anorectal malformation: single center experience (6 mins)**

*Iacusso C, Scuglia M, Iacobelli BD, Totonelli G, Bagolan P, Morini F (Rome, Italy)*

**26. Compromised vitality of spermatozoa after contact with colonic mucosa in mice. Implications for fertility in colon vaginoplasty patients (6 mins)**

*Kosak S, Takeda M, Ochi T, Miyahara K, Nakamura E, Tada N, Lane G, Yamataka A (Tokyo, Japan)*

**27. One-stage repair of anorectal malformations in females with vestibular fistula: a systematic review and meta-analysis (6 mins)**

*Lauriti G, Di Renzo D, Lelli Chiesa P, Zani A, Pierro A (Toronto, Canada)*

**28. Enterocolitis complicating hirschsprung's disease : the roll of (C-159t Codon) polymorphism biomarkers in the clinical follow up (6 mins)**

*Kadhim M, Aboud M (Al Qadisiya, Iraq)*

**29. Optimal time for single-stage pull-through colectomy in infants with short-segment Hirschsprung disease: a retrospective controlled trial (6 mins)**

*Tianqi Zhu, Jiexiong Feng (Wuhan, China)*

**30. Re-operation after Ladd's procedure in the neonatal period (6 mins)**

*Zhu H, Zheng S, Pierro A, Peng X, Kuiran Dong, Alganabi M, Shen C (Toronto, Canada)*

31. **Lactate dehydrogenase activity in infants with midgut volvulus: old diagnostic friends revisited (3 mins)**  
*Bici K, Bagolan P, Fusaro F, Salvatori G, Morini F (Rome, Italy)*
32. **Altered expression of Juncctophilin 2 in Hirschsprung's disease (3 mins)**  
*O'Donnell AM, Nakamura H, Tomuschat C, Marayati NF, Puri P (Dublin, Ireland)*
33. **Botulinum toxin treatment improves the intestinal morphology in short bowel gut model of twenty-day-old weanling rat (3 mins)**  
*Figueira RL, Garcia SB, Marques IS, Marques MQ, Falquetti L, Volpe FP, Costa KM, Sbragia L (Sao Paulo, Brazil)*
34. **Intestinal expression of Tmem16a after massive small bowel resection in rats (3 mins)**  
*Ben-Shahar Y, Bitterman A, Pollak Y, Coran AG, Berkowitz D, Sukhotnik I, (Haifa, Israel)*

**16:00-16:30 COFFEE BREAK**

**16:30-18:00 SCIENTIFIC SESSION IV**

- Chairs: Alastair Millar (Cape town, South Africa)  
Benno Ure (Hannover, Germany)  
Ernesto Leva (Milan, Italy)*
35. **Biliary lineage of Hepatocyte-like cells derived from SHED (Stem Cells from Human Exfoliated Deciduous Teeth) in liver fibrosis mice (6 mins)**  
*Takahashi Y, Yuniartha R, Yamaza T, Kirino K, Yanagi Y, Matsuura T, Taguchi T (Fukuoka, Japan)*
36. **Spatial distribution of proliferous biliary ductules in the fibrous remnant – a potential prognostic indicator after Kasai procedure (6 mins)**  
*Jixin Yang, Nannan Wei, Yanwei Su, Mingfa Wei, Jiexiong Feng (Wuhan, China)*
37. **Histopathologic features in liver biopsies at the time of Kasai-portoenterostomy: the prognostic value of the Ishak and Chevallier-Score (6 mins)**  
*Madadi-Sanjani O, Hartleben B, Ritz T, Kuebler JF, Hasan A, Petersen C, Andruszkow J (Hannover, Germany)*
38. **Very low bilirubin after portoenterostomy improves biliary atresia native liver survival by deferring liver fibrogenesis (6 mins)**  
*Hukkinen M, Lohi J, Jahnukainen T, Pakarinen MP (Helsinki, Finland)*

39. **Recent experiences with the stool color card screening in Lower Saxony and future perspectives of the decentralized screening (6 mins)**  
*Madadi-Sanjani O, Kuebler JF, Petersen C (Hannover, Germany)*
40. **Cytokeratin 20 expression is a prognostic marker in biliary atresia (6 mins)**  
*La Pergola E, Masenello V, Cananzi M, Santoro L, Davenport M, Gamba P (Padova, Italy)*
41. **Noninvasive predictors of portal hypertension and cirrhosis in biliary atresia after successful portoenterostomy**  
*Hukkinen M, Lohi J, Jahnukainen T, Pakarinen MP (Helsinki, Finland)*
42. **Choledochal cyst and malignancy: a plea for lifelong follow-up (6 mins)**  
*Madadi-Sanjani O, Wirth TC, Kuebler JF, Petersen C, Ure BM (Hannover, Germany)*
43. **The postoperative decrease in plasma acyl ghrelin levels after pediatric living donor liver transplantation is associated with increased serum aspartate aminotransferase levels (6 mins)**  
*Zenitani M, Hosoda H, Kodama T, Saka R, Takama Y, Ueno T, Tazuke Y, Kangawa K, Oue T, Okuyama H (Hyogo, Japan)*
44. **Identification of cancer stem-like cells and their role in tumorigenesis in hepatoblastoma cell lines (3 mins)**  
*Lee-Theilen M, Volante G, Kroll G, Rolle U, Fiegel H (Frankfurt am Main, Germany)*

SUNDAY, 14<sup>TH</sup> OCTOBER, 2018

**8:30-10:30 SCIENTIFIC SESSION V**

*Chairs: Tomas Wester (Stockholm, Sweden)  
Richard Keijzer (Winnipeg, Canada)  
Tomoaki Taguchi (Fukuoka, Japan)*

45. **Gut microbiota during necrotizing enterocolitis (6 mins)**  
*Li B, Botts SR, Wu RY, Lee C, Miyake H, Sherman PM, Pierro A (Toronto, Canada)*
46. **Remote ischemic conditioning with limited ischemia is a novel therapy for necrotizing enterocolitis (6 mins)**  
*Janssen Lok M, Maalouf M, Ganji N, Miyake H, O'Connell J, Li B, Lee C, Pierro A (Toronto, Canada)*
47. **PTEN inhibition protects against the intestinal injury caused by experimental necrotizing enterocolitis (6 mins)**  
*Zhu H, Deng S, Zheng S, Li B, Alganabi M, Pierro A, Shen C (Toronto, Canada)*
48. **High mobility group AT-hook 1 is important in maintaining intestinal epithelium homeostasis (6 mins)**  
*Lee C, Cadete M, Zito A, Wu R, Li B, Pierro A (Toronto, Canada)*
49. **Human fetal small intestinal organoids for regenerative medicine applications (6 mins)**  
*Perin S, Zambaiti E, Nikhil T, Elvassore N, De Coppi P, Giobbe GG (London, UK)*
50. **The gut-brain axis is implicated in the development of neuroinflammation secondary to Necrotizing Enterocolitis (6 mins)**  
*Biouss G, O'Connell J, Antounians L, Li B, Pierro A, Zani A (Toronto, Canada)*
51. **Necrotizing enterocolitis in twins with twin-to-twin transfusion syndrome treated by laser coagulation (6 mins)**  
*Cervellini G, Morandi A, Porro GA, Fabietti I, Ichino M, Fava G, Macchini F, Persico N, Leva E (Milano, Italy)*
52. **Neurodevelopmental impairment in infants surviving necrotizing enterocolitis: a systematic review of the literature and meta-analysis (6 mins)**  
*Matei AC, Goodbaum A, Montalva L, Zani A (Toronto, Canada)*
53. **Evaluation of peritoneal drainage comparing necrotizing enterocolitis with and without cardiac defects (6 mins)**  
*Canesin WC, Martins LR, Volpe FP, Gonçalves WA, Manso PH, Figueira RL, Sbragia L (Sao Paulo, Brazil)*

54. **Risk factor analysis of necrotizing enterocolitis in very low birth weight and extremely low birth weight neonates (3 mins)**  
*Joong Kee Youn, Ji-Won Han, Hee-Beom Yang, Seung Han Shin, Ee-Kyung Kim, Sung-Eun Jung, Hyun-Young Kim (Seoul, Korea)*
55. **Safety and feasibility of same-day laparotomy for necrotizing enterocolitis and bilateral pulmonary banding for hypo plastic left heart syndrome (3 mins)**  
*Miscia ME, Honjo O, Zani A (Toronto, Canada)*
56. **Post-Operative paralysis and elective ventilation reduces anastomotic complications in esophageal atresia: a systematic review and meta-analysis (3 mins)**  
*O'Connell J, Janssen Lok M, Miyake H, Seo S, Pierro A (Toronto, Canada)*
57. **Correlation of 99mTc sucalfate scan and endoscopic grading in caustic oesophageal injury (3 mins)**  
*Nondela BB, Cox SG, Brink A, Millar AJW, Numanoglu A (Cape Town, South Africa)*
58. **Multi-disciplinary management of complex trachea-oesophageal fistulae (3 mins)**  
*Thakkar H, Hewitt R, Hannon E, Cross K, Curry JI, Muthialu N, De Coppi P (London, UK)*
59. **Anti-inflammatory effects of stable ozonides with vitamin e acetate on colonic epithelial cell line treated with LPS (3 mins)**  
*Curro M, Perrone P, Arena S, Impellizzeri P, Russo T, Montalto AS, Rizzo V, Centorrino A, Parisi S, Ientile R, Romeo C (Messina, Italy)*

**10:30-11:00 COFFEE BREAK**

**11:00-13:00 SCIENTIFIC SESSION VI**

*Chairs: Paolo De Coppi (London, UK)  
 Martin Meuli (Zurich, Switzerland)  
 Jiexiong Feng (Wuhan, China)*

60. **Angiogenic action of decellularized diaphragm toward tissue regeneration (6 mins)**  
*Alvarez Fallas ME, Martina Piccoli M, Franzin C, Sgro A, Dedja A, Urbani L, Bertin E, Trevisan C, Gamba PG, Burns AJ, De Coppi P, Pozzobon M (Padova, Italy)*
61. **Spleen decellularization for tissue engineering applications (6 mins)**  
*Zambaiti E, Rizzi E, Nucci G, Scottoni F, Eaton S, Pellegata AF, De Coppi P (London, United Kingdom)*
62. **Rock Inhibitor (Y-27632) interferes with normal somitogenesis in chick embryos (6 mins)**  
*Duess JW, Puri P, Thompson J (Dublin, Ireland)*

63. **The bone mineral density is increased in the cadmium-induced omphalocele chick model by using three-dimensional micro-computed tomography (6 mins)**  
*Shigeta T, Fujiwara N, Koike K, Yamataka A, Doi T (Osaka, Japan)*
64. **Trauma registry data as a tool for comparison of practice patterns and outcomes between low- and middle- income and high-income healthcare settings (6 mins)**  
*Traynor Jr MD, Hernandez MC, Shariq O, Bekker W, Bruce JL, Laing GL, Kong VY, Buitendag JJP, Klinkner DB MEd, Moir C, Habermann EB, Clarke DL, Zielinski MD, Polites SF (Rochester, USA)*
65. **Assisted reproductive techniques and the risk of major congenital anomalies: a systematic review and meta-analysis (6 mins)**  
*Murchison L, De Coppi P, Sutcliffe A, Eaton S (London, UK)*
66. **Amniotic fluid stem cells release extracellular vesicles that contain evolutionarily conserved microRNAs: Valuable resources for a regenerative approach to congenital anomalies (6 mins)**  
*Antounians L, Montalva L, Zani A (Toronto, Canada)*
67. **Preconceptional epigallocatechin-3-gallate consumption improves neuronal differentiation in a mice model of fetal alcohol syndrome (6 mins)**  
*Aras-López R, Andreu-Fernandez V, Almeida L, Martínez L (Madrid, Spain)*
68. **cAMP response element-binding protein controls the appearance of neuron-like traits in chorion mesenchymal cells (6 mins)**  
*Ridolfi G, Steccanella F, Bozzetto B, Innamorati G, Giacomello L (Verona, Italy)*
69. **Sphingosine-1-phosphate and fty720p produce opposite effects on akt activation in chorion-derived mesenchymal cells (3 mins)**  
*Steccanella F, Grandi T, Ridolfi G, Innamorati G, Giacomello L (Verona, Italy)*
70. **Distinct expression profile of stem cells markers Igr5 and Igr6 in human skin and bio-engineered dermo-epidermal skin substitutes in vivo (3 mins)**  
*Biedermann T, Michalak-Micka K, Zapiórkowska-Blumer N, Mazzone L, Reichmann E, Meuli M, Klar AS (Zurich, Switzerland)*
71. **Mesenchymal stromal cells: perspective treatment for skin regeneration in pediatric surgery (3 mins)**  
*Pelizzo G, Bommarito D, Amoroso S, Mantelli M, Croce S, Avanzini MA, Calcaterra V (Palermo, Italy)*
72. **Ultra-sensitive aspiration device for objective postburn scar assessment in children (3 mins)**  
*Elrod J, Mueller B, Mohr C, Mazza E, Meuli M, Schiestl C (Zurich, Switzerland)*

- 73. Induction of angiogenic and inflammation-associated dermal biomarkers following acute UVB exposure on bio-engineered pigmented dermo-epidermal skin substitutes in vivo (3 mins)**

*Michalak-Micka K, Biedermann T, Reichmann E, Meuli M, Klar AS (Zurich, Switzerland)*

- 74. Expression of CD200 and CD200 receptor in prevascularized human dermo-epidermal skin substitutes in vivo (3 mins)**

*Biedermann T, Michalak-Micka K, Reichmann E, Meuli M, Klar AS (Zurich, Switzerland)*

**13:00-14:30 LUNCH**

**13:30-14:30 POSTER WALK III**

*Chairs: Francesco Morini (Rome, Italy)  
Leopoldo Martinez (Madrid, Spain)*

**13:30-14:30 POSTER WALK IV**

*Chairs: Naho Fujiwara (Tokyo, Japan)  
Jan Gosemann (Leipzig, Germany)*

**14:30-15:30 SCIENTIFIC SESSION VII**

*Chairs: Mikko Pakarinen (Helsinki, Finland)  
Takaharu Oue (Hyogo, Japan)  
Takashi Doi (Osaka, Japan)*

- 75. The chick embryo – a new experimental model to study tumour biology and test cancer therapies for neuroblastoma (6 mins)**

*Sampat K, Herrmann A, See V, Losty P (Liverpool, United Kingdom)*

- 76. Median sacral artery ligation in the treatment of large sacrococcygeal teratomas – a systematic review (6 mins)**

*Alganabi M, Zhu H, O'Connell J, Janssen Lok M, Pierro A (Toronto, Canada)*

- 77. Melanoma in children, adolescents and young adults: clinical-pathology, surgery and outcome (6 mins)**

*Fidanzi C, Bagnoni G, D'Erme AM, Strambi S, Spinelli C (Tuscany, Italy)*

- 78. Neuroblastoma surgical treatment: The role of Neuroblastoma-derived mesenchymal stromal cells in tumorigenesis and tumor progression (6 mins)**

*Pelizzo G, Milazzo M, Caruso AM, Guddo A, D'Angelo P, Di Benedetto V, Veschi V, Avanzini MA, Calcaterra V (Palermo, Italy)*



79. **CO2 effects on two different neuroblastoma cell lines (6 mins)**  
*Montalto AS, Currò M, Russo T, Giunta ML, Impellizzeri P, Perrone P, Antonelli E, Centorrino A, Antonuccio P, Ientile R, Romeo C (Messina, Italy)*
80. **Laparoscopic ovary conservative neoplasm resection in pediatric population: a single center prospective study on 236 patients (6 mins)**  
*Jieni Xiong, Jinfa Tou, Minju Li, Jinhua Wang (Zhejiang, China)*
81. **Optimal surgery for abdominal intermediate-risk neuroblastoma (3 mins)**  
*Yoneda A, Santo K, Uehara S, Nakaoka T, Kamiyama M, Hiroto Y, Tsukazaki Y, Gomi S, Nishimoto S, Nakamura K, Nakamura T (Osaka, Japan)*
- 16:00-17:00 SCIENTIFIC SESSION VIII**  
*Chairs: Jack Elder (Boston, USA)*  
*Marcello Cimador (Palermo, Italy)*  
*Carmelo Romeo (Messina, Italy)*
82. **Antioxidant therapy ameliorates germ cell apoptosis induced by a high-dose ionizing irradiation in rats (6 mins)**  
*Sukhotnik I, Nativ O, Ben-Shahar Y, Bejar IN, Pollak Y, Coran AG, Nativ O, Gorenberg M (Haifa, Israel)*
83. **The benefit of ambulatory blood pressure monitoring in the evaluation of congenital solitary functioning kidney: correlation between hypertrophy and hypertensive risk (3 mins)**  
*Sergio M, Zambaiti E, Baldanza F, Di Pace M, Cimador M (Palermo, Italy)*
84. **Varicocele size and testicular growth in male adolescents: size matters (3 mins)**  
*Elder JS, Friedman AA, Diaz M (Boston, USA)*
85. **Effects of myo-inositol alone and in combination with seleno-L-methionine on cadmium-induced testicular damage in mice (3 mins)**  
*Minutoli L, Micali A, Malta C, Puzzolo D, Antonelli E, Peri F, Antonuccio P (Messina, Italy)*
86. **To treat or not to treat adolescent varicocele. Literature review and meta-analysis (3 mins)**  
*Arena S, Priolo A, Scalfari G, Impellizzeri P, Antonuccio P, Turiaco N, Peri FM, Romeo P, Mondello S, Romeo C (Messina, Italy)*
87. **Minor changes in testicular measurement may have a significant effect on calculated testicular volume in boys with a varicocele (3 mins)**  
*Elder JS, Friedman AA, Diaz M (Boston, USA)*

88. **The enrollment of potential genes polymorphism biomarkers in multicystic dysplastic kidney development in children (3 mins)**  
*Manal K, Mohammed A (Al Qadisiya, Iraq)*
89. **Non-palpable testis: the role of laparoscopy in guiding surgical options (3 mins)**  
*Arena S, Impellizzeri P, Perrone P, DeRosa L, Romeo C, Papparella A (Messina - Napoli, Italy)*
90. **Problems related to voiding pattern in patients with hypospadias repair: is the problem related to only operation? (3 mins)**  
*Baltrak YA, Karaman I, Karaman A (Ankara, Turkey)*
91. **Evaluation of long term outcome in patients who had undergone surgery for congenital adrenal hyperplasia (3 mins)**  
*Lima M, Ruggeri G, Gargano T, Libri M, Valastro F (Bologna, Italy)*

17:00

**CLOSING REMARKS**

**POSTER WALK I**

*Chairs: Florian Friedmacher (London, UK)  
Sebastiano Cacciaguerra (Catania, Italy)*

- P1. Comparison of neonatal intestinal perforation secondary to Hirschsprung's Disease and necrotizing enterocolitis**  
*Didi Zhuansun, Chunlei Jiao, Jiexiong Feng (Hubei, China)*
- P2. Preliminary study on the use of anal-lipofilling to control fecal incontinence in children operated for anorectal malformations**  
*Lima M, Ruggeri G, Gargano T, Libri M, Stuani M (Bologna, Italy)*
- P3. Other aspects should regard when assesment of neonatal radiography**  
*Ozkan C, Emine B, Akif EM, Adnan K, Levent D, Çağrı S (Isparta, Turkey)*
- P4. Demonstration of Antibiotic Activity in Experimental Appendicitis Model**  
*Demirtürk H, Günşar C, Tanrıverdi Hİ, Taneli F, Ayhan S (Manisa, Turkey)*
- P5. Can high resolution esophageal manometry (HREM) be useful in neurologically impaired children (NIC) with gastroesophageal reflux disease (GERD) in tailoring surgical treatment? Preliminary results**  
*Battaglia S, Orizio P, Della Casa D, Torri F, Missale G, Alberti D (Brescia, Italy)*
- P6. Management of intussusception in older children**  
*Hisamatsu C, Noguchi E, Hatakeyama T (Himeji, Japan)*
- P7. Effectiveness of essential oils after abdominal surgery in children. Preliminary data**  
*Antonelli E, Impellizzeri P, Peri FM, Perrone P, Parisi S, Arena S, Romeo C (Messina, Italy)*
- P8. The coagulation profile as a marker for acute appendicitis in the pediatric population**  
*Morandi A, Cipriani E, Parolini F, Brisighelli G, Calderini E, Consonni D, Franzini S, Leva E (Milano, Italy)*
- P9. Hemodynamically stable high-grade splenic blunt Injury demonstrated failure critical 3 or 4-day on its follow-up**  
*Levent D, Özkan C, Ebru Yılmaz Keskin Ebru, Çağrı S (Isparta, Turkey)*
- P10. The herbal medicines Inchinkoto and Saireito exert beneficial effects of reducing hepatic fibrosis in bile duct ligation rat liver**  
*Hashizume N, Yagi M, Shin R, Akiba J, Sotogaku N, Nishi A, Egami H (Kurume, Japan)*
- P11. Pneumoperitoneum modifies systemic and peritoneal expression of RANTES and MCP1 cytokines**  
*Papparella A, Ranucci S, Cirillo G, Noviello C, Nino F, Cobellis G, De Biase D, Paciello O, Papparella S (Napoli-Pescara, Italy)*
- P12. Immunohistochemical evaluation of topical effects of OZOILE oil in patients with Balanitis Xerotica Obliterans**  
*Arena S, Barresi V, Russo T, Currò M, Parisi S, Lioni S, Scalfari G, Turiaco N, Peri FM, Andronaco E, Impellizzeri, Romeo C (Messina, Italy)*

**POSTER WALK II**

*Chairs: Akihiro Yoneda (Osaka, Japan)  
Hiroki Nakamura (Dublin, Ireland)*

- P13. Duodenal atresia and associated intestinal atresias: a systematic review and meta-analysis**  
*Miscia ME, Lauriti G, Lelli Chiesa P, Zani A (Toronto, Canada, Pescara Italy)*
- P14. A new diagnostic tool based on a binomial logistic regression model in cases of suspected acute appendicitis in children**  
*Lima M, Ruggeri G, Gargano T, Libri M, Persichetti Proietti D (Bologna, Italy)*
- P15. Topical treatment of bxo with stable ozonides with vitamin e acetate shows similar anti-inflammatory effects to steroids**  
*Russo T, Currò M, Impellizzeri P, Ferlazzo N, Caccamo D, Perrone P, Arena S, Antonelli E, Antonuccio P, Ientile R, Romeo C (Messina, Italy)*
- P16. Effect of ischemic postconditioning on healing of colonic anastomosis**  
*Özkan C, Alpay A, Oğuzhan K (Isparta, Turkey)*
- P17. Is the appendix still inflamed in children at the time of interval appendectomy?**  
*Pederiva F, Bussani R, Codrich D, Shafiei V, Guida E, Scarpa MG, Schleaf J (Trieste, Italy)*
- P18. Safety and efficacy of transumbilical extracorporeal laparoscopic-assisted appendectomy using wound retractor and silicone rubber cap**  
*Oue T, Zenitani M, Tani G, Tanaka NN (Hyogo, Japan)*
- P19. How to establish a robotic surgery program in a children's hospital: sharing with the adult hospital, could it be a solution?**  
*Torino G, Neba GR, Crucetti A, Ilari M, Mariscoli F, Brandigi E, Cobellis G, Martino A (Ancona, Italy)*
- P20. Hemorrhoids of the rectum in children: a review of the literature and their own observations.**  
*Aung Pyae Swe, Kholostova VV, Korchagina NS (Moscow, Russia)*
- P21. Effects of topical application of platelet-rich plasma on esophageal stricture and oxidative stress after caustic burn in rats: Is autologous treatment possible?**  
*Oztan MO, Aslan FD, Oztan S, Diniz G, Koyluoglu G (Izmir, Turkey)*
- P22. The assessment of the esophageal motility of children with esophageal disorders by the detailed observation of the pH-multichannel intraluminal impedance waveform and baseline impedance: screening test potential**  
*Masui D, Fukahori S, Ishii S, Hashizume N, Saikusa N, Yoshida M, Higashidate N, Sakamoto S, Tsuruhisa S, Nakahara H, Tanaka Y, Yagi M (Fukuoka, Japan)*
- P23. The altered strategy for oesophageal stenosis following oesophageal atresia**  
*Sato H, Suzuki K, Tayama A, Yagi Y, Fukunaga N, Watarai Y (Kanagawa, Japan)*
- P24. The burden of disease in caustic substance ingestion**  
*Nondela BB, Cox SG, Rode H, Millar AJW, Numanoglu A (Cape Town, South Africa)*

**POSTER WALK III**

Chairs: *Francesco Morini (Rome, Italy)*  
*Leopoldo Martinez (Madrid, Spain)*

- P25. Thoracoscopic repair of esophageal atresia in patients with hypoplastic left heart syndrome**  
*Crucetti A, Cobellis G, Torino G, Cerigioni E, Mariscoli F, Tallarico R, Martino A (Ancona, Italy)*
- P26. Tracheal injury after endotracheal intubation: experience with conservative treatment in two infants**  
*Levent D, Özkan C, Ebru Yılmaz Keskin Ebru, Çağrı S (Isparta, Turkey)*
- P27. Seizure and respiratory arrest following lidocaine administration for elective circumcision: a case report**  
*Inal Aslan G (Kirikkale, Turkey)*
- P28. Risk factors of meconium-related ileus in very low birth weight infants**  
*Kim H, Han J, Youn J, Yang H, Shin S, Kim E, Jung S (Seoul, South Korea)*
- P29. Understanding transplacental mechanisms of nanoparticle transfer as a novel fetal and maternal therapy option during pregnancy**  
*Tse WH Higgins S, Patel D, Xing M, Keijzer R (Winnipeg, Canada)*
- P30. Impact of human mesenchymal cells of different body site origins on the maturation of dermo-epidermal skin substitutes**  
*Michalak-Micka K, Klar AS, Böttcher-Haberzeth S, Reichmann E, Meuli M, Biedermann T (Zurich, Switzerland)*
- P31. Is amniotic fluid a good source for fetal skinengineering?**  
*Basler M, Pontiggia L, Biedermann T, Meuli M, Mazzone L (Zurich, Switzerland)*
- P32. Upregulation of ros-inducible factors in human epidermis of uvb-exposed bio-engineered pigmented dermo-epidermal skin substitutes in vivo**  
*Klar AS, Michalak-Micka K, Reichmann E, Meuli M, Biedermann T (Zurich, Switzerland)*
- P33. Expression pattern of epidermal markers in dermo-epidermal skin substitutes in vivo after UVB irradiation**  
*Klar AS, Michalak-Micka K, Michalczyk T, Reichmann E, Meuli M, Biedermann T (Zurich, Switzerland)*
- P34. GNAQ related disorders: phenotype spectrum**  
*Baraldini V, Spaccini L, Destro F, Cattaneo E, Graziani D, Moneghini L, Bulfamante G, Riccipitoni G (Milano, Italy)*
- P35. FGF synergizes with cAMP in promoting neuron-like traits in chorion mesenchymal cells**  
*Bozzetto C, Ridolfi G, Steccanella F, Innamorati G, Giacomello L (Verona, Italy)*

**POSTER WALK IV**

*Chairs: Naho Fujiwara (Tokyo, Japan)  
Jan Gosemann (Leipzig, Germany)*

- P36. Safety and usefulness of plastic closure in infants with gastroschisis: a systematic review and meta-analysis**  
*Miyake H, Seo S, Janssen Lok M, O'Connell J, Pierro A (Toronto, Canada)*
- P37. Comparison of laparoscopic percutaneous extraperitoneal closure versus conventional herniotomy in extremely low birth weight infants**  
*Shibuya S, Miyano G, Miyazaki E, Okazaki T, Imaizumi T, Mikami T, Koga H, Ochi T, Lane JG, Yamataka A (Tokyo, Japan)*
- P38. Proposal for a multicenter study: screening of mucopolysaccharidosis in pediatric patients with inguinal hernia and umbilical hernia**  
*Centonze A, Salerno S, Moricca MT, Pensabene L, Concolino D (Catanzaro, Italy)*
- P39. The impact of distance travelled on postoperative follow-up attendance in pediatric general surgery patients**  
*Wiebe ME, Shawyer AC (Winnipeg, Canada)*
- P40. Evaluation Of Single Center Experiences In Children Operated With Spinal Anesthesia**  
*Atakan BY (Ankara, Turkey)*
- P41. Common salt: effective remedy for management of umbilical granuloma, an observational study**  
*Vijai Datta Upadhyaya, Basant Kumar (Pradesh, India)*
- P42. The utility of imaging procedures in penetrating injuries of the abdomen and perineum in children**  
*Sweed Y, Goldfeld M, Loberant N, Singer-Jordan, Yulevich A, Fischer D (Naharia, Israel)*
- P43. Complexibility of care with who damaged by motorcycle injury caused pelvic and lower limb trauma**  
*Ozkan C (Isparta, Turkey)*
- P44. A serum fatty acid analysis in neurologically impaired patients prescribed enteral nutrition formulas**  
*Tsuruhisa S, Yagi M, Tanaka Y, Hashizume N, Fukahori S, Ishii S, Saikusa N (Kurume, Japan)*
- P45. Paediatric nutritional risk screening tools in assessing risk of pediatric surgical complications**  
*Yadavalli Sai Divya, Kumaravel S (Pondicherry, India)*
- P46. Nociceptive stimulus in the neonatal period affects satellite glial cells morphology in adult life, with differences between male and female rats**  
*Simões ALB, Silva GAR, Carmo EC, Giorgetto C, Fazan VPS (Ribeirao Preto, Brazil)*

# CITY MAP OF TAORMINA



## BUS

From the Fontanarossa International Airport in Catania there is a direct bus to Taormina (INTERBUS). The “Terminal Interbus Taormina” - Via Luigi Pirandello - is your destination, 5 min walk from Hotel Villa Diodoro, the Conference Venue.

Tickets can be purchased at the airport and cost € 8,20. The journey takes about 1h 25'  
Buses typically leave every half an hour.

<http://www.etnatrasporti.it/>



# GENERAL INFORMATION

## Official language

English. No simultaneous translation will be provided

## Registration desk opening times

Thursday October 11th 17:00 - 19:00

Friday October 12th 7:00 - 18:30

Saturday October 13th 7:30 - 18:30

Sunday October 14th 7:30 - 18:30

## Registration Fee

Before September 12th 250€

Trainees / Fellows 200€ (upon presentation of certificate)

After September 12th 300€

Trainees/Fellows 250€ (upon presentation of certificate)

Fees include participation to the International Workshop and Symposium - Lunches (3) - Welcome Reception and Social Dinner - Bag - Certificate of attendance.

## Certificate of attendance

A certificate will be issued upon request for the Workshop and Symposium.

Currency

The official currency of Italy as European Union member state is the euro (€). Most shops and restaurants in Taormina accept international credit and debit cards.

## Time zone

Taormina is in the Central European Time Zone (GMT+1hr).

## Visa Requirements

Participants requiring a visa should apply immediately to the consular office or embassy in their country in order to avoid inconvenience. Please note that the visa application procedure can take some weeks.

The Local organizer can assist the attendees by processing official invitations upon request. This letter of invitation, however, constitutes neither an obligation by the Local Organizing Committee to cover any travel and accommodation expenses, fees or other costs connected with attending the meeting and staying in Taormina.

## Instructions for Presenters

Oral presentation in the two prizes session include 8 minutes for presentation and 4 for discussion.

In other session: 6 minutes oral presentation includes 6 minutes for presentation and 4 for discussion; 3 minutes includes 3 minutes for presentation and 2 for discussion.

Please note to stay within the allocated time. Otherwise your presentation will be discontinued by the session chairpersons.

Technical equipment available for oral presentations:

Data projectors for computer presentation from a notebook or pc with windows operating system and Microsoft Office 2010. Personal notebooks will not be permitted.

Preview desk: a preview facility will be available to the conference room. Presentations should be uploaded at least 2 hours before the session or the day before for early morning sessions.

Only presentation on a USB flash drive will be accepted.

In case your powerpoint includes a video, it is necessary to have both the video file and the presentation ready in same folder.

If you would like to use any unusual presentation formats please contact the preview desk in advance

The file name should contain your initial and name scientific session in roman and progressive number in italic.

## Guidelines For Poster Presentation

Poster Display area is near the conference room in "Hotel Villa Diodoro", Taormina.

Poster size: poster should be 90 cm in width x 120 cm in height.

Poster are scheduled for Display on October 13, 14.

Poster Walk 1-2 will be held on October 13 from 13:30-14:30 pm

Poster Walk 3 and 4 will be held on October 14 from 13.30-14:30 pm

Presenters should be present at their poster site during the poster walk session.

Each poster will be allotted a Poster Number

Poster boards will be available at poster presentation area with poster numbers.

Please Paste or pin your poster as per the allotted poster number only.

Authorized persons will be available with the pins/tapes etc. Posters must be removed by the evening of October 14. The organizing committee will not be responsible for the posters left behind after October 2018.



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