

Programme
31st Annual Meeting IFMSS
Queenstown, New Zealand
30th March-4th April 2012

Friday 30th March

2pm-5pm Registration

6pm-8pm Welcome Reception

Saturday 31st March

0800-0810 Welcome Remarks and Housekeeping

0810-0830 History of IFMSS “The 3rd Decade:- A slow change in direction”

**0830-0905 The First Sir William Liley Memorial lecture.
Professor Jane Harding “Fetal treatment for a healthy life”**

0905-0930 Vandenberghe-Storz Awards

0905-0915 Growth factor stimulation of amnion mesenchymal cells for fetal membrane repair after iPPROM
*Kiveliö A, Ochsenbein-Kolble N, Zimmermann R, Ehrbar M
University Hospital of Zurich*

0915-0930 Staining of amniotic fluid with ‘meconium’ correlates with the presence of intestinal peel in children born with gastroschisis
*Moore S¹, Laudier B¹, Purdie G², Pringle K¹.
¹ Wellington Hospital, ² Otago University*

0930-0940 Presentation of Travel Awards

0940-1030 Morning Tea

1030-1215 Vandenberghe-Storz Awards (Continued)

1030-1045 Prenatal Tracheal Reconstruction with a Hybrid aMSC-Engineered Construct Derived From Decellularized Airway
*Gray F, Turner C, Ahmed A, Calvert C, Zurakowski D, Fauza D
Children's Hospital Boston*

1045-1100 Craniofacial Repair with Fetal Bone Grafts Engineered from Amniotic Mesenchymal Stem Cells
*Gray F, Turner C, Klein J, Ahmed A, Zurakowski D, Fauza D
Children's Hospital Boston*

1100-1115 A Simplified Protocol for Human Mesenchymal Amniocyte-Induced Pluripotent Stem Cell Maintenance: Implications for Disease Models and Clinical Applicability
*Gray F, Ahmed A, Turner C, Klein J, Loh YH, Hartung O, Manos P, Daley G, Fauza D
Children's Hospital Boston*

- 1115-1130 **Prospective Stillbirth Risk in Uncomplicated 3rd Trimester Monochorionic Twin Pregnancy: Systematic Review and Meta-analysis**
Danon D^{1,2}, Sekar R¹, Fisk N^{1,2}
¹ Centre for Advanced Prenatal Care, The Royal Brisbane and Women's Hospital, ² University of Queensland Centre for Clinical Research
- 1130-1145 **Human induced pluripotent stem cell-derived neural crest stem cells integrate into the injured spinal cord in the fetal lamb model of myelomeningocele**
Saadai P¹, Wang A², Nout Y³, Downing T⁴, Lofberg K¹, Bresnahan J¹, Beattie M¹, Li S⁴, Farmer D²
¹ University of California, San Francisco, ² University of California, Davis, ³ Cal Poly Pomona, ⁴ University of California, Berkeley
- 1145-1200 **Biocompatible mussel-based adhesive reseals the amniotic membrane in an ex vivo uterine model**
Saadai P¹, Kwiat D¹, Gill J², Koch K², Lari D², Dworky Z¹, Feldstein V¹, Messersmith P³, Harrison M¹
¹ University of California, San Francisco, ² University of California, Berkeley, ³ Northwestern University
- 1200-1215 **Biomarker profiles in maternal and cord blood in patients with preterm labor secondary to preterm premature rupture of membranes (PPROM)**
Saadai P¹, Tsai C¹, Keating S², Norris P², Romero R³, Kim C³, Rand L¹, MacKenzie T¹
¹ University of California, San Francisco, ² Blood Systems Research Institute, San Francisco, ³ DMC Hutzel Women's Hospital, Detroit, Michigan
- 1215-1300 **Lunch**
- 1300-1500 **Panel Discussion "Fetal Repair of Spina Bifida in the Post-MOMS Trial era"**
Alan Flake (CHOP), Kelly Bennett (Vanderbilt), Shin Hirose (UCSF), Ed Yang (St Louis), Jose Piero (Barcelona) & 1 other USA Centre TBA
- 1500-1520 **Afternoon Tea**
- 1520-1715 **"Brains & Backs"**
- 1520-1535 **Starting a fetal surgery program: Basically successful, but not without problems**
Meuli M, Moehrlen U, Flake A, Ochsenbein N, Husler M, Zimmerman R
University Children's Hospital Zurich
- 1535-1550 **Prenatal treatment with mesenchymal stem cells and scaffolds reduce spinal astroglial reactivity and local inflammation in the teratogenic model of myelomeningocele**
Encinas J¹, Peiró J², de Miguel F¹, Frias M¹, Lancha S¹, Carceller F¹, Tovar J¹
¹ Hospital La Paz, ² Hospital Vall d'Hebron

1550-1605 **Stem Cell Therapy For Posterior Arch Bone Regeneration In A Fetal Sheep Myelomeningocele Model. Preliminary Results**
Peiro J¹, Fontecha C¹, Codinach M¹, Rodriguez L¹, Romagosa C¹, Encinas J², Soldado F¹, Aguirre M¹, Martinez-ibañez V¹
¹ Fetal Surgery Program. Pediatric Surgery, Orthopaedics and Bioengineering Labora, ² Pediatric Surgery. Hospital Universitario La Paz. Madrid. Spain

1605-1620 **One-Single Port Fetoscopy For Myelomeningocele Repair In The Fetal Lamb**
Peiro J¹, Fontecha C¹, Fonseca C¹, Esteves M¹, Martinez-Ibañez V¹, Ruano R², Belfort M²
¹ Fetal Surgery Program. Pediatric Surgery, Orthopaedics and Bioengineering Laboratory. Research Institute of Hospital Universitari Vall d'Hebron. Barcelona. Spain., ² Texas Children's Fetal Center. Baylor College of Medicine. Houston. Texas. USA

1620-1635 **The value of US and MRI in the assessment of pregnancies with primary CMV infection**
Lipitz S, Weisz B, Hoffman C, Feldman B, Chyen B, Tepperberg M, Yinon Y
Dept. of Ob&Gyn, The Sheba Medical Center, Tel Hashomer, Israel

From 1730 Evening Function

Sunday 1st April

0800 – 0815 “Brains & Backs cont'd)

0800 – 0815 **An Educational Tool for the detection of Fetal Open Spina Bifida**
Blakemore Karin, Strazhnik Inna-Marie, Bird Christine, Crino Jude, Ahn Edward, Lees Gary, Hutchins Grover
Johns Hopkins University School of Medicine

0815-0830 **Fetal Intracranial Hemorrhage – Look At The Face**
Blakemore K, Lawson C, Stewart A, Casella J, Johnson M, Hamosh A
Johns Hopkins University School of Medicine

0830 – 0845 **Is The Fetal Brain More Vulnerable To The Effects Of Anesthesia?**
Olutoye OA, Olutoye OO, Lazar DM, Ruano R, Zamora IJ, Adesina AM

0845-1015 General Techniques & Miscellaneous

0845-0900 **A Novel Device for the Detection of Uterine Contractions**
Aina-Mumuney A¹, Blakemore K¹, Hwang K², Sunwoo S²
¹ Johns Hopkins University Sch of Medicine, ² Johns Hopkins University Sch of Bioengineering

0900-0915 **Super Eyes and Hands for Future Fetal Endoscopic Surgery**
Chiba T
National Center for Child Health and Development

- 0915-0930 **Amnioport: an adjunctive method for maintaining normal amniotic fluid volume**
Polzin W^{1,2}, *Lim F*¹, *Habli M*^{1,2}, *VanHook J*^{1,3}
¹ Fetal Care Center of Cincinnati, ² Good Samaritan Hospital, ³ University of Cincinnati
- 0930 - 1000 **Giant Placental Chorioangioma: Techniques in Fetoscopic Devascularization and Outcomes**
Polzin W^{1,2}, *Lim F*¹, *Habli M*^{1,2}, *VanHook J*^{1,3}
¹ Fetal Care Center of Cincinnati, ² Good Samaritan Hospital, ³ University of Cincinnati
- 1000-1015 *Use of Intra-amniotic Antibiotics to Prevent Chorioamnionitis Following Fetal Intervention: What kind of antibiotics and how much should we use?*
Yang E, Vlastos E
- 1015-1045 **Morning Tea**
- 1045-1215 **Screening & Genetics**
- 1045-1100 **Amniocentesis in low-risk population, should be offered to all pregnant women?**
Appelman Z^{1,2}, *Bachar A*², *Josefsberg Ben-Yehoshua S*¹, *Gerard L*²
¹ Kaplan Medical Center, ² Herzliya Medical Center, Israel
- 1100-1115 **One third of anomalies found after positive DS Screens are different that the screen**
Evans MI, Pergament E
- 1115-1130 **Gender equality in patient choices in fetal reduction cases**
Evans MI, Rosner M
- 1130-1145 **Early Aav-Mediated Intrauterine Gene Therapy At 0.4g Facilitates Sustained Transgene Expression In The Absence Of An Inhibitory Immune Response**
Mattar C¹, *Nathwani A*², *Rosales C*², *Waddington S*³, *Johana N*¹, *Ng XW*⁴, *Dighe N*¹, *Biswas A*¹, *Choolani M*¹, *Chan J*^{1,4,5}
¹ Experimental Fetal Medicine Group, Yong Loo Lin School of Medicine, National University of Singapore, ² Department of Haematology, University College London, UK, ³ Institute for Women's Health, University College London, UK, ⁴ Department of Reproductive Medicine, KK Women's and Children's Hospital, Singapore, ⁵ Cancer and Stem Cell Biology Program, Duke-NUS Graduate Medical School, Singapore
- 1145 – 1200 **Intrauterine Transfer Of Human Fetal Haemopoietic Stem Cells In A Murine Model Of Severe Thalassaemia**
Mattar C¹, *Dighe N*¹, *Tan LG*¹, *Chong M*¹, *Sandikin D*¹, *Waddington S*², *Antoniou M*³, *Biswas A*¹, *Choolani M*¹, *Chan J*^{1,4,5}
¹ Experimental Fetal Medicine Group, Yong Loo Lin School of Medicine, National University of Singapore, ² Institute for Women's Health, University College London, UK, ³ Kings College London, UK, ⁴ Department of Reproductive Medicine, KK Women's and Children's Hospital, Singapore, ⁵ Cancer and Stem Cell Biology Program, Duke-NUS Graduate Medical School, Singapore

1200-1215	A New Concept In Prenatal Record Keeping For The Very High Risk Patient. "My Fem Card" A Personal Health Record (Phr) <i>Chayen B^{1,2}, Askof Y², Askof E²</i> <i>¹ Mayney Hayeshua Medical Center, ² AskMedic</i>
1215-1315	Lunch
1315 on	Free Time Optional Tours
Monday 2 nd April	Own Arrangements for Dinner
1000-1030	Morning Tea
1030-1245	Twins
1030-1045	Maternal and fetal safety of fluid-restrictive general anesthesia for endoscopic fetal surgery in monochorionic twin gestations <i>Duron V, Watson-Smith D, Benzuly S, Muratore C, O'Brien B, Carr S, Luks F</i> <i>Alpert Medical School of Brown University</i>
1045-1100	Correlation between cord insertion type and superficial choriovasculature in diamniotic-monochorionic twin placentas <i>De Paepe M, Shapiro S, Hanley C, Chu S, Luks F</i> <i>Alpert Medical School of Brown University</i>
1100-1115	Duration of laser time and operative time impact pregnancy outcome and survival in twin-twin transfusion syndrome treated with fetoscopic laser <i>Polzin W^{1,2}, Lim F¹, Habli M^{1,2}, VanHook J^{1,3}</i> <i>¹ Fetal Care Center of Cincinnati, ² Good Samaritan Hospital, ³ University of Cincinnati</i>
1115-1130	Pre-Operative Predictors Of Death In Twin-To-Twin Transfusion Syndrome Treated With Laser Ablation Of Placental Anastomoses: Improved Specificity With Recursive Partitioning <i>Skupski D</i> <i>North American Fetal Therapy Network</i>
1130- 1145	Prenatal Mitral Valve Regurgitation and its Relation to Fetal Outcome of Recipient Twins in Twin-Twin Transfusion Syndrome <i>Moon-Grady A, Ezeokoli N, Feldstein V, Hirose S, Rand L</i> <i>UCSF Fetal Treatment Center</i>
1145-1200	
1200-1300	Lunch
1330	Leave for Tour
	TSS Earnslaw to Walter Peak, Afternoon Tea and Farm Tour. Return 1700
1800	Depart for Dinner at Gibbston Valley Winery

Tuesday 3rd April
0800-1000

Abdomen

- 0800-0815 **Giant omphaloceles v. gastroschisis: A 5-year cohort study**
Watson-Smith D, Muratore C, Steigman S, Aidlen J, Kurkchubasche A, Tracy T, Luks F
Alpert Medical School of Brown University
- 0815-0830 **Elective delivery for gastroschisis confers shorter neonatal length of stay**
Yang E, Davies L
- 0830 – 0845 **Ward reduction – rewarding action**
Moehrlen U, Zaccaria L, Meuli M
- 1000-1030 Morning Tea**
- 1030 - 1230 Chest & Hearts**
- 1030 - 1045 **Cardiac progenitor cell recruitment during fetal mammalian cardiac regeneration following MI**
Liechty K¹, Allukian M², Morris M¹, Xu J¹, Caskey R¹, Mitchell M¹, Gorman J², Gorman R²
¹ University of Mississippi Medical Center, ² University of Pennsylvania School of Medicine
- 1045 - 1100 **Resilience of the human fetal lung following stillbirth: Potential relevance for pulmonary regenerative medicine**
De Paepe M, Chu S, Heger N, Hall S, Mao Q, Luks F
Alpert Medical School of Brown University
- 1100-1115 **Early Fetoscopic Tracheal Occlusion For Severe Pulmonary Hypoplasia In A Bilateral Congenital Diaphragmatic Hernia.**
Peiro J¹, Ruano R², Carreras E¹, Sanchez-Duran M¹, Arevalo S¹, Molino J¹, Martinez-Ibanez V¹
¹ Fetal Surgery Program. Pediatric Surgery, Orthopaedics and Bioengineering Laboratory. Research Institute of Hospital Universitari Vall d'Hebron. Barcelona. Spain., ² Texas Children's Fetal Center. Baylor College of Medicine. Houston. TX-USA.
- 1115-1130 **Does the Amount of Liver Herniation Affect Outcomes in Congenital Diaphragmatic Hernia**
Olutoye O¹², Lazar D¹², Ruano R¹³, Cass DL¹², Cassady CI¹⁴, Moise KJ¹³, Johnson A¹³, Lee TC¹²
Texas Children's Fetal Center¹ and the Departments of Surgery², Obstetrics and Gynaecology³ and Radiology⁴, Baylor College of Medicine, Houston, Texas, USA
- 1130-1145 **Exit-To- Resection for Fetuses With Large Lung Masses and Persistent Mediastinal Compression Near Birth**
Cass D, Oluyinka O, Cassady C, Ivey RT, Ayres N, Olutoyin O, Lee TC
Texas Children's Fetal Center, Houston, TX, USA
- 1145-1200 **The International Fetal Cardiac Intervention Registry (IFCIR): Update**
Moon-Grady A¹, Wilkins-Haug L², Devlieger R³, Tworetzky⁴, Oepkes D⁵
¹UCSF Fetal Treatment Center, ²Brigham and Women's Hospital, Maternal Fetal Medicine, ³University Hospital Leuven, Fetomaternal Medicine, ⁴Advanced Fetal Care Center, ⁵Children's Hospital Boston, Leiden University Medical Center, Maternal-Fetal Medicine

1200-1215 **Is Respiratory Morbidity Increased During The Waiting Period Prior To Elective Resection Of Fetal Lung Masses?**
Estroff Judy¹, **Parad Richard**², **Vachha Behroze**³
¹ Advanced Fetal Care Center, Department of Radiology, Children's Hospital Boston, ² Division of Newborn Medicine, Brigham and Women's Hospital, Boston, MA, ³ Department of Radiology, Beth Israel Deaconess Medical Center, Boston, MA

1215- 1230 **Needle-Based Laser Therapy For Fetal Bronchopulmonary Sequestration**
Vlastos EI¹
¹ St. Louis Fetal Care Center, ² St. Mary's Health Center, ³ St. Louis University, Department of Obstetrics, Gynecology and Women's Health, Division of Maternal-Fetal Medicine

1230-1245 **Chaos Caused By Extreme Hypotonia**
Blakemore K, Denne E, Huisman T, Fishman E, Nigrini E, Wayock C, Burton E
Johns Hopkins University School of Medicine

1245-1330 **Lunch**

1330-1500 **Obstructive Uropathy Panel**

1500-1530 **Afternoon Tea**

1530-1715 **Business Meeting**

1800 **Depart for Conference Dinner
Skyline Restaurant**

Wednesday 4th April

0830-1000 **Scientific Session (if needed)**

1000-1030 **Morning Tea**

1030-1200 **Scientific Session (if needed)**

1200 **Close**

1200-1300 **Lunch**