29th International Congress of the Society for Medical Innovation and Technology

(Update October 19<sup>th</sup> 2017)

### 8.30 - 8.45 Welcome and registration

|       | ROOM A                                                                                                        | ROOM B                                                                                                                                                  | ROOM C                                                                                                                           |
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| 8.45  |                                                                                                               | Opening ceremony: Introduction<br>Authorities, Mario Morino (Italy)                                                                                     |                                                                                                                                  |
| 9.15  | S1- John Wickham Leo                                                                                          | cture: Biorobotics and Bionics - science, technolog                                                                                                     | y and social challenges                                                                                                          |
|       |                                                                                                               | Paolo Dario (Italy)                                                                                                                                     |                                                                                                                                  |
|       |                                                                                                               | Chair: Mario Morino (Italy)                                                                                                                             |                                                                                                                                  |
| 9.45  | S2- Artificial Intelligence technology & Surgery                                                              | S12- <u>DENTAL@SMIT2017: Technological and</u><br><u>biotechnological innovations</u><br><u>in dentistry</u>                                            | S22 - <u>Bioinspired medical devices for innovative</u><br><u>medicine</u>                                                       |
|       | Chairs:<br>Andreas Melzer (Germany)<br>Brynjulf Ystgaard (Norway)                                             | Chairs:<br>Stefano Carossa (Italy)<br>Nicola Scotti (Italy)                                                                                             | Chairs:<br>Harald Fischer (Germany)<br>Kaspar Althoefer (UK)                                                                     |
|       | AI technology for improved safety in the OR - Joris Jaspers (The Netherlands)                                 | <b>Keynote:</b> Virtual surgical planning and navigation assisted by piezosurgery in oro-maxillofacial field - Massimo Robiony (Italy)                  | <ul> <li>Keynote: Building on Bioinspiration: a basis for novel medical devices - Donald Martin (France)</li> <li>TBD</li> </ul> |
|       | AI to improve the workflow in the OR - fully integrated OR - the German OR network - Thomas Neumuth (Germany) | <b>Keynote</b> : Novel technologies and relevant know-how for customizing grafts and biomaterials in bone tissue engineering - Federico Mussano (Italy) | <ul><li>TBD</li><li>TBD</li></ul>                                                                                                |
|       | Advanced concepts for medical robot systems: information into action - Gernot Kronreif (Austria)              |                                                                                                                                                         |                                                                                                                                  |
|       | Emerging Technologies in Surgery - Richard Satava (USA)                                                       |                                                                                                                                                         |                                                                                                                                  |
|       | The death of surgery as we know it - Amir Szold (Israel)                                                      |                                                                                                                                                         |                                                                                                                                  |
| 11.00 |                                                                                                               | Coffee break                                                                                                                                            |                                                                                                                                  |

|       | ROOM A                                                                                                                                                               | ROOM B                                                                                                                     | ROOM C                                                                                                                      |
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| 11.30 | S3 - <u>Actuators and Mechanisms for novel</u><br><u>medical tools</u>                                                                                               | S13 - <u>DENTAL@SMIT2017: Technological and</u><br>biotechnological innovations in dentistry                               | S23 - <u>New tools for operative endoscopy</u>                                                                              |
|       | Chairs:<br>Jenny Danklemann (NL)<br>Pietro Valdastri (UK)                                                                                                            | Chairs:<br>Elio Berutti (Italy)<br>Massimo Robiony (Italy)                                                                 | Chairs:<br>Marc O Schurr (Germany)<br>Harald Fischer (Germany)                                                              |
|       | <b>Keynote:</b> Needles and image Guidance for percutaneous interventions - John van den Dobbelsteen (NL)                                                            | <b>Keynote:</b> Design and virtual validation of the most updated technologies in endodontics - Giorgio Chiandussi (Italy) | Over-the-scope-clip for bleeding, leak & fistula of the digestive tract – Raffaele Manta (Italy)                            |
|       | OC 48: A lockable steerable needle for the TIPS procedure -<br>Tonke L de Jong (NL)                                                                                  | <b>Keynote:</b> Adhesive materials and digital technologies – Nicola Scotti (Italy)                                        | Over-the-scope-clip for proctology indications – Riccardo Naspetti (Italy)                                                  |
|       | OC 117: Ultra-thin steerable needle: an experimental prototype -<br>Marta Scali, Paulien Veldhoven, Paul Henselmans, Dimitra<br>Dodou, Paul Breedveld (NL)           |                                                                                                                            | Full-Thickness-Resection-Device for lesions in the colon-rectum:<br>data from 500 registry cases – Marc O. Schurr (Germany) |
|       | OC 46: Minimally invasive prenatal closure of spina bifida - Lisette<br>Tas, John Van Den Dobbelsteen, Dick Oepkes, Alex Edgink, (NL)                                |                                                                                                                            |                                                                                                                             |
|       | OC 150: Low Melting Point Alloy Based Stiffening of a Soft Robot<br>- Haider Abidi, Alice Tonazzini, Matteo Cianchetti, Dario Floreano,<br>Arianna Menciassi (Italy) |                                                                                                                            |                                                                                                                             |
| 12.30 | Lunch                                                                                                                                                                |                                                                                                                            |                                                                                                                             |
| 13.30 | S4- John Abele Lecture: Design and testing of innovative MR Molecular Imaging reporters                                                                              |                                                                                                                            |                                                                                                                             |
|       | Silvio Aime (Italy)                                                                                                                                                  |                                                                                                                            |                                                                                                                             |
|       |                                                                                                                                                                      | Chair: Gianluca Ciardelli (Italy)                                                                                          |                                                                                                                             |

|       | ROOM A                                                                                                                                                                                                                                                               | ROOM B                                                                                                                                                                                                                                                                   | ROOM C                                                                                                                                                                                                                                                              |
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| 14.00 | S5 - Image Guided Surgery                                                                                                                                                                                                                                            | S14 - <u>Capsule endoscopy</u>                                                                                                                                                                                                                                           | S24 - New tech for advanced therapies                                                                                                                                                                                                                               |
|       | Chairs:<br>Joachim Kettenbach (Austria)<br>Andreas Melzer (Germany)                                                                                                                                                                                                  | Chairs:<br>Pietro Valdastri (UK)<br>Marco Pennazio (Italy)                                                                                                                                                                                                               | Chairs:<br>Michele Diana (Italy)<br>Joris Jaspers (NL)                                                                                                                                                                                                              |
|       | <b>Keynote:</b> Ultrasound methods and guidance systems for surgery - Thomas Lango (Norway)                                                                                                                                                                          | OC 116: Wireless Endoscopic Capsule for Early Screening of<br>Colorectal Cancer Contributions by the WiBEC Project - Salman<br>Mahmood (Germany)                                                                                                                         | OC 97: Pre-clinical validation of open-source airway navigation<br>using Anser EMT and CUSTUSx - Herman Alexander Jaeger,<br>Fabian Trauzettel, Hermann Alexander Jaeger, Marcus Kennedy,                                                                           |
|       | Integrate multimodality hybrid operating rooms to advance outcomes in image guided surgery - Amilcar Alzaga, (Germany)                                                                                                                                               | OC 106: Detection of acute upper gastrointestinal bleeding with<br>the HemoPill acute - a prospective study - Melanie Zimmermann,<br>Sebastian Schostek, Mario Fode, Jan Keller, Michael Melbert,                                                                        | Padraig Cantillon-Murphy (Ireland) Erlend Fagertun Ofstad,<br>Hakon Olav Leira, Thomas Lango, (Norway)                                                                                                                                                              |
|       | OC 7: 3D tongue model construction and the motion regeneration<br>- Mukai Nobuhiko (Japan)                                                                                                                                                                           | Romi Hartmann, Artur Schmidt, Karel Caca, Marc O. Schurr, Thomas Gottwald (Germany)                                                                                                                                                                                      | OC 87: Experimental Chitosan membranes applied on the peri-<br>prostatic neurovascular bundles after nerve-sparing robot-<br>assisted radical prostatectomy: preliminary results of a phase II<br>study - Riccardo Bertolo, Francesco Porpiglia, Cristian Fiore, L. |
|       | OC 35: Additive manufacturing for gynaecological brachytherapy:<br>custom-fit applicators based on MRI data - Nick J. van de Berg,<br>Rianne C. Laan, Remi A. Nout (The Netherlands)                                                                                 | OC 38: Comparison of white light colonoscopy and a novel robotic<br>colonoscope in the assessment of ulcerative colitis - Stefano<br>Pallotta, Emanuele Tumino, Francesca Iannuzzi, Rodolfo Sacco,<br>Sandro Ardizzone, Gianpaolo Bresci, Roberto De Franchis (Italy)    | Muratori, Federica Fregnan, Stefano Geuna (Italy)<br>OC 65: Video-assisted arteriovenous fistula in dialysis patients:                                                                                                                                              |
|       | OC 96: An interactive approach for the semi-automatic segmentation of liver and lesions - Pravda Jith Ray, Sergio Salvatore Caccamo, Louise Oram, Ole Jacob Elle, Rahul Prasanna Kumar (Norway)                                                                      | OC 118: Wireless HD Imaging for Minimal Invasive Surgery - Yoav<br>Mintz, Nikolai Kunicher, Noam Livneh, Ronit Brodie, Vered B.<br>Bracha (Israel)                                                                                                                       | our preliminary experience with VITOM® HD System - Salvatore<br>Fazzotta, Vincenzo Davide Palumbo (Italy)<br>OC 111: Less is more: new approach to the open abdomen -                                                                                               |
|       | OC 103: Mechanical catheter navigation with electromagnetic tracking to peripheral airway targets - Fabian Trauzettel, Hermann Alexander Jaeger, Marcus Kennedy, Padraig Cantillon-Murphy (Ireland) Erlend Fagertun Ofstad, Hakon Olav Leira, Thomas Lango, (Norway) | OC 61: Post-lymphangiographic multidetector CT for preclinical<br>lymphatic interventions in rabbits -Tomohiro Matsumoto, Kosuke<br>Tomita, Shunto Maegawa, Takako Nakamura, Tetsuya Suzuki,<br>Terumitsu Hasebe (Japan)                                                 | Federico Lora, Luca Petruzzelli, Mariachiara Benedetto, Eloisa<br>Franchi, Lisa Rapetti (Italy)<br>OC 84: Design of an Innovative Implant for Rib Fracture<br>Stabilisation - Keith Mallia, Philip Farrugia, Aaron Casha (Malta)                                    |
|       | OC 125: Rectal Cancer Segmentation with Fully Convolutional<br>Neural Network - Joohyung Lee, Ji Eun Oh, Min Ju Kim, Bo Yun<br>Hur, Dae Kyung Sohn (Korea)                                                                                                           | OC 27: An intuitive disposable endoscope with intrinsic pneumatic<br>actuation - Nicolo Garbin, Long Wang, Dennis Sohn, Keith L.<br>Obstein, Nabil Simaan (USA), Pietro Valdatsri (UK)                                                                                   | OC 5: Enriched Leukocyte and Plaster Fibrin (L-PRF) in the<br>Treatment of Skin Lesions – Giorgio Rosa, Enrico Rescigno,<br>Giulia San Romè (Italy)                                                                                                                 |
|       |                                                                                                                                                                                                                                                                      | OC 131: Sensorized capsule endoscope for closed-loop magnetic<br>navigation and safe tissue interaction - Renato Caliò, Domenico<br>Camboni, Joan Ortega Alcaide, Calogero Maria Oddo,<br>Mariachiara Carrozza, Arianna Menciassi, Gastone Ciuti, Paolo<br>Dario (Italy) |                                                                                                                                                                                                                                                                     |

|       | ROOM A                                                                                                                                                                                                             | ROOM B                                                                                                                                                                                                                                                              | ROOM C                                                                                                                                                                                                                                                               |
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| 15.15 | S6 - <u>Novel design of medical devices: from IP</u><br>to Market Analysis                                                                                                                                         | S15 - <u>CARDIO@SMIT2017: What's new in</u><br><u>cardiac surgery</u>                                                                                                                                                                                               | S25 - <u>Image Guided Surgery 2</u>                                                                                                                                                                                                                                  |
|       | Chairs:<br>Mar O Schurr (Germany)<br>Enrico Ghia (Italy)                                                                                                                                                           | Chairs:<br>Davide Ricci (Italy)<br>Daniel Wendt (Germany)                                                                                                                                                                                                           | Chairs:<br>Padraig Cantillon-Murphy (Ireland)<br>Filippo Molinari (Italy)                                                                                                                                                                                            |
|       | <b>Keynote</b> : Innovative hernia reconstruction through better new materials - El Fray (Sczeczin)                                                                                                                | OC 6: The Development of the Hydraulic Pressure Wave Catheter<br>- Aimée Sakes, Paul Breedveld, Joe Spronck (The Netherlands)                                                                                                                                       | OC 8: Electromagnetic tracking can be used to accurately<br>measure left ventricular diameter in real time: a validation study –<br>Magnus Reinsfelt, Øyvind Senstad Andersen, John Aalen, Ole<br>Jacob Elle, Hans Henrik Odland, Espen Wattenberg Remme<br>(Norway) |
|       | <b>Keynote:</b> Polypropylene: a unique material with different morphologies and behaviours in hernia repair - Cristina Buemi, Alessandro Ganora (Italy)                                                           | OC 16: Polylysine-enriched decellularized matrices: a promising<br>approach for vascular substitutions – Francesca Boccafoschi,<br>Luca Fusaro, Marta Calvo Catoira, Martina Ramella (Italy)                                                                        | OC 18: Prediction of guidewire trajectory inside the vascular system: 3D computer based model - Hoda Sharei, John J van den Dobbelsteen, Jenny Dankelman (The Netherlands)                                                                                           |
|       | OC 100: Tissuegraft: from the idea up to the market - Francesca<br>Boccafoschi, Marta Calvo Catoira, Luca Fusaro, Martina Ramella<br>(Italy)                                                                       | OC 51: Development of a modular suturing catheter for minimally<br>invasive surgery: the potential for in vivo - assembly – Helge<br>Wurdemann, Shervanthi Homer-Vanniasinkam, Jian S. Dai (UK),<br>Estevan Hideki Murai, , P. G. Silveira, Daniel Martins (Brasil) | OC 47: The Simulation of Catheter Interventional Surgery Based<br>on Virtual Reality - Junlei Hu, Xiaojun Chen, Pengjie Sun (China)                                                                                                                                  |
|       | OC 63: An active device for high fidelity simulation in newborn<br>intubation – Arianna Menciassi, Selene Tognarelli, Alessia Longo,<br>Rosa Teresa Scaramuzzo, Massimiliano Ciantelli, Armando<br>Cuttano (Italy) | OC 67: Development of a robotic platform for minimally invasive<br>aortic heart valve surgery – Izadyvar Tamadon, Selene Toniarelli,<br>Claudio Quaglia, Giorgio Soldani, Vincenzo Ferrari; Paolo Dario,<br>Arianna Menciassi (Italy)                               | OC 19: Generatively manufactured flexible instrument guidance<br>device and holding arm for MRI-guided interventions – Robert<br>Odenbach, Juan Sebastián Sánchez López, Michael Friebe<br>(Germany)                                                                 |
|       | OC 70: A novel bactericidal surface to reduce nosocomial infections improving an Italian Patent - Alessandra Piccitto, Ivan Parkin (UK), Mario Morino (Italy)                                                      | OC 104: Evaluation of a Multi-Steerable Catheter for Cardiac<br>Interventions in a 3D-Printed Heart Model – Awaz Ali, Joost De<br>Winter, Dimitra Dodou, Paul Breedveld (The Netherlands)                                                                           | OC 62: A robotic approach for FUS in moving organs –Arianna<br>Menciassi, Andrea Cafarelli, Alessandro Diodato, Andrea<br>Schiappacasse, Selene Tognarelli, Gastone Ciuti, (Italy), Andreas<br>Melzer (Germany)                                                      |
|       |                                                                                                                                                                                                                    | OC 114: A Beating Heart Simulator for Open and Thoracoscopic<br>Surgery – Chengli Song, Shichao Liang, Xuesong Zhau, Chang<br>Ma, Dick Lee, Sha Liu (China)                                                                                                         | OC 99: Cybersecurity: IT risk perception in the healthcare. Marche<br>Region Case Study - Barbara Kulaga, Verardino Cristino (Italy)                                                                                                                                 |
| 16.15 |                                                                                                                                                                                                                    | Coffee break                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                      |

|       | ROOM A                                                                                                                                                                                                                                                      | ROOM B                                                                                               | ROOM C                                                                                                                                                                                                                                                                                                 |
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| 16.45 | S7- <u>I have an idea! From the concept to the</u><br>clinical validation                                                                                                                                                                                   | S16 - CARDIO@SMIT2017: New technologies in<br>heart valve surgery                                    | S26 - <u>New tools for laparoscopy &amp; interventional</u><br>radiology                                                                                                                                                                                                                               |
|       | Chairs:<br>Yoav Mintz (Israel)<br>Amir Szold (Israel)                                                                                                                                                                                                       | Chairs:<br>Massimo Boffini (Italy)<br>Gino Gerosa (Italy)                                            | Chairs:<br>Andreas Melzer (Germany)<br>Chengli Song (China)                                                                                                                                                                                                                                            |
|       | From the concept to the clinical validation in a start up company - Enrico Ghia (Italy)                                                                                                                                                                     | <b>Keynote:</b> Technological advances in TAVI - Daniel Wendt (Germany)                              | OC 139: A Randomized Controlled Trial of the Fundamentals of<br>Robotic Surgery: Validation of a proficiency-based progression<br>robotic skills course in a multi-specialty, multi-institutional trial<br>Richard Satava, USA                                                                         |
|       | OC 145: Novel design of medical devices: from IP to market<br>analysis. How patents can foster innovation in the medical<br>device field - Marco Camolese (Italy)                                                                                           | Transapical mitral valve repair: further technical developments -<br>Giovanni Speziali (Italy)       | OC 136: Safety of single incision robotic cholecystectomy for<br>benign gallbladder disease: a systematic review – Simone<br>Arolfo, Marco Migliore, ALebrto Arezzo, Roberto Passera, Mario<br>Morino (Italy)                                                                                          |
|       | OC 140: Asymmetric - a novel vessel sealing technology, using low energy and a flexible Laser fiber - Amir Szold (Israel)                                                                                                                                   | Percutaneous approaches to the mitral valve: what's next? -<br>Francesco Maisano (Italy)             | OC 64: OneShot®: a new device for close laparoscopy<br>pneumoperitoneum - Vincenzo Davide Palumbo, Giovanni<br>Cassata, Luca Cicero, Antonino De Luca, Attilio Ignazio Lo                                                                                                                              |
|       | OC 36: Design requirements for surgical equipment for low-and-<br>middle income countries - Roos Marieke Oosting, Linda<br>Wauben, Jenny Dankelmann (The Netherlands), Reinou Groen<br>(USA)                                                                |                                                                                                      | Monte (Italy)<br>OC 94: Improving fundamental laparoscopic skills by pre-course<br>tactile exploration - Sem F Hardon, Roelf R. Postema, Tim<br>Horeman, Jeroem B. J. Smeets, H. Jaap Bonjer (The<br>Netherlands)                                                                                      |
|       | OC 142: Extending Human Xtensions from device to system:<br>remote controlled articulating tool for MIS surgery - Amir Szold,<br>Mordechai Sholeb (Israel)                                                                                                  | S17 - <u>CARDIO@SMIT2017: Organ engineering:</u>                                                     | OC 81: Sentinel node navigation surgery and ICG fluorescence-<br>guided surgery for gastric cancer – Teruya Minami, Noriyuki<br>Inaki, Toshikatsu Tsuji (Japan)                                                                                                                                        |
|       | OC 53: Design of a fully implantable closed loop artificial<br>pancreas - Veronica Iacovacci, Leonardo Ricotti, Izadyar<br>Tamaddon, Giuseppe Tortora, Carmine Perri, Paolo Dario,<br>Arianna Menciassi (Italy)                                             | from repair to regeneration<br>Chairs:<br>Mauro Rinaldi (Italy)<br>Francesco Maisano (Italy)         | OC 85: Indocyanine green guided sentinel lymph node<br>identification - a prospective study evaluating the distribution of<br>lymph nodes respectively lymph node metastasis in rectal<br>cancer patients - S. Shah, J. Salber, I. Stricker, A. Tannapfel, R.<br>Viebahen (Germany)                    |
|       | OC 56: A novel microwaves tool for robotic resection of the liver<br>- Francesco Frosini, Fabio Staderini, Margherita Brancadoro,<br>Mattia Dimitri, Jacopo Regolini, Roberto Minniati, Mohamed<br>Nassim Boushaki, Linda Paternò, Francesco Guerra, Andrea | <b>Keynote:</b> Ex Vivo Lung Perfusion (EVLP) from evaluation to organ repair - Frank D'Ovidio (USA) | OC 59: Instruments and situation awareness: main risk-factors<br>for surgery, Linda Wauben, Connie Dekker-van Doorn, Johan<br>Lange, Jan Klein (The Netherlands)                                                                                                                                       |
|       | Coratti, Fabio Cianchi, Andrea Corvi, Arianna Menciassi, Guido<br>Biffi Gentili (Italy)                                                                                                                                                                     | Purification strategies in organ transplantation - Mauro Atti (Italy)                                | OC 147: Morphological and hemodynamic characterization of<br>post endovascular AAA repair: comparison between two different<br>commercial devices - Paola Tasso, Maurizio Lodi Rizzini, Diego<br>Gallo, Umberto Morbiducci (Italy), Anastasios Raptis, Michalis<br>Xenos, Miltiadis Matsagkas (Greece) |
|       | OC 74: From concept to design: A new flexible robotic uterine<br>elevator - Chakravarthini Saaj, Seri Mustaza, Kavitha Madhuri<br>(UK)                                                                                                                      | New technologies in heart valve surgery - Gino Gerosa (Italy)                                        | <b>Keynote:</b> High Performance soft-tissue Navigation, an<br>Introduction to the EU-project HiPerNav– Ole Jakob Elle<br>(Norway)                                                                                                                                                                     |
|       |                                                                                                                                                                                                                                                             |                                                                                                      |                                                                                                                                                                                                                                                                                                        |

|       | OC 98: Autonomous Balloon Management for Endovascular<br>Occlusion - Padraig Cantillon-Murphy, Herman Alexander<br>Jaeger, Cormac McCarthy, Fabian Trauzzettel (Ireland), Ian<br>Kanterman, Alice-Anne Goetz (France), Benjamin Colvard<br>(USA) |  |  |
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|       | OC 33: Touchless control of a prototype light system - Louise<br>Oram, Jonathan Brian Alcoriza, Rafael Palomar, Ole Jacob Elle<br>(Norway)                                                                                                       |  |  |
|       | OC 21: Clear orthodontic aligners biomechanics optimization<br>through finite element analysis - Gabriele Rossini, Tommaso<br>Castroflorio, Andrea Deregibus, Elio Berutti (Italy)                                                               |  |  |
|       | <b>Keynote:</b> China's new policies for international collaboration in medical technology field – Chengli Song (China)                                                                                                                          |  |  |
| 19.00 | GET TOGETHER PARTY AT LINGOTTO DENTAL SCHOOL                                                                                                                                                                                                     |  |  |

#### **ROOM A ROOM B** ROOM C 8.30 S8 - New Technologies for Surgery & S18 - Innovation in colorectal endoscopy & S27 - What's cool in navigation Endoscopy surgerv Chairs: Chairs: Chairs: Paul Wetter (USA) Marco Maria Lirici (Italy) Ole Jacob Elle (Norway) Nicola Di Lorenzo (Italy) Andrea Pietrabissa (Italv) Pietro Valdastri (UK) Current developments in Endoscopy and Minimal Access OC 122: The ReCIVA breath sampler for colorectal cancer OC 66: Evaluation of a 3D planning tool for irreversible screening. Preliminary evaluation and results - Donato electroporation treatment in pancreatic cancer - Benjamin Eigl. Platforms - Silvana Perretta (France) Francesco Altomare (Italy) Mathias Peterhans, Stefan Weber, Beat Gloor, Mathias Worni (Switzerland) OC 14: RED – Robot for Endoscopic Dissection: preliminary The role of multitasking platforms - Andreas Melzer (Germany) study - Margherita Brancadoro, Claudio Quaglia, Haider Abidi, OC 4: In vivo identification of liver tumors during liver surgery Marco Augusto Bonino, Arianna Menciassi, Alberto Arezzo (Italy) using electromagnetic navigation: a pilot study - Oleksandra Ivashchenko, Bas Pouw, Jasper Nijkamp, Koert F. D. Kuhlmann, Magnetic fields for enabling surgical applications at different OC 112: Endoscopic Full thickness resection: preliminary Niels F. M. Kok, Elisabeth G. Klompenhouwer, Theo J. M. Ruers scales - Arianna Menciassi (Italy) indications and results - Franco Coppola (Italy) (The Netherlands) OC 90: Quality of mesorectal excision after open. laparoscopic. OC 79: Mixed Reality 3D Visualization and Interaction for robotic and transanal TME – Simone Maria Tierno, Gabriele Surgery using HoloLens, Rahul Prasanna Kumar, Henrik Brun, Reduced port laparoscopic surgery - Yoav Mintz (Israel) Campana, Gianfrancesco Intini; Marco Giordano, Carlo Eugenio Bjørn Edwin, Ole Jacob Elle (Norway) Vitelli, Marco Maria Lirici (Italy) OC 86: Intra-operative estimation of surgical progress by 5th Generation of Surgery - Richard Satava (USA) OC 123: Pre-clinical in vivo validation of the CYCLOPS surgical tracking instrument use - Frédérique Meeuwsen, Fabian Van system for ESD - TJC Oude Vrielink, A. Darzi, G. Mylonas (UK) Luyn, John van Den Dobbelsteen (The Netherlands) Health Technology Assessment: 3D Technology for OC 95: Hands-on colorectal laparoscopic skills courses: lessons OC 78: Magnetic resonance imaging compatible liver phantom laparoscopy. Is it worth? - Nereo Vettoretto (Italy) learned after 10 editions - Francisco Miguel Sanchez-Margallo, with 3D printed vessels for pre-clinical assessment - Egidijus Miguel Angel Sanchez Hurtado, Josè Antonio Fatas, Idoia Diaz-Pelanis, Louise Oram, Rahul P. Kumar, Ole Jacob Elle, Bjørn Guemes, Francisco Alba Mesa: Josè Fernando Trebolle, Rocho Edwin (Norway) Ferrer Sotelo (Spain) OC 93: Implementation of natural user interface for medical OC 10: A novel method for intraoperative tactile examination in image navigation and remote control during surgery: Efficiency colorectal surgery - Rozaliia Solodova, Vladimir Galatenko, and face validity - Francisco Miguel Sánchez-Margallo, Juan Eldari Nakashidze, Vladimir Staroverov, Mikhail Sokolov Alberto Sánchez-Margallo, Josè Luis Movrano Cuevas (Spain) (Russia) OC 28: Assessment of target registration error for hybrid OC 92: Trans-anal Total Mesorectal Excision: Pneumodissection instrument tracking for image guided surgery applications -Andrea Teatini, Ole Jacob Elle, Bjørn Edwin (Norway) of Retroperitoneal Structures Eases Laparosocpic Rectal Resection - Simone Maria Tierno, Gabriele Campana, Gianfrancesco Intini, Carlo Eugenio Vitelli, Marco Maria Lirici OC 105: Assessing non-technical skills in the delivery room through multisensory-based simulation - Marcello Passarelli. (Italy) Fabrizio Bracco, Michele Masini, Filippo Domaneschi, Carlo Oc 119: Efficacy of the Over-The-Scope Clip (OTSC) for Chiorri (Italy), Donald Glowinski (Switzerland) treatment of colorectal postsurgical leaks and fistulas - Mauro Verra, Giacomo Lo Secco, Giulio Di Benedetto, Lorenzo Bono, OC 144: Using video-tracking algorithms of the MST robotic Mario Morino, Alberto Arezzo (Italy) camera manipulator for teaching and testing surgical skills - Amir Szold (Israel) 10:00 Coffee break

## Friday, 10<sup>th</sup> November 2017

|       | ROOM A                                                                                                                 | ROOM B                                                                                                                                                                              | ROOM C                                                                                                                                                                                                                                                     |
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| 10.30 | S20 - Gerhard Buess                                                                                                    | Lecture: Flexible surgery: the new frontier of minin                                                                                                                                | mally invasive therapy                                                                                                                                                                                                                                     |
|       |                                                                                                                        | Lee Swanstrom (USA / France)                                                                                                                                                        |                                                                                                                                                                                                                                                            |
| 11.00 | S9 - Robotics for Surgery & Endoscopy                                                                                  | Chair: Alberto Arezzo (Italy)<br>S19 - Materials for medical devices:                                                                                                               | 628 New teels for lengragemy 2                                                                                                                                                                                                                             |
| 11.00 | 39 - <u>Robolics for Surgery &amp; Endoscopy</u>                                                                       | biocompatibility, functional surfaces                                                                                                                                               | S28 - <u>New tools for laparoscopy 2</u>                                                                                                                                                                                                                   |
|       |                                                                                                                        | <u>biocompany, fanctional surfaces</u>                                                                                                                                              |                                                                                                                                                                                                                                                            |
|       | Chairs:                                                                                                                | Chairs:                                                                                                                                                                             | Chairs:                                                                                                                                                                                                                                                    |
|       | Arianna Menciassi (Italy)                                                                                              | Ipsita Roy (UK)                                                                                                                                                                     | Calin Tiu (Romania)                                                                                                                                                                                                                                        |
|       | Bruno Siciliano (Italy)                                                                                                | Alberto Audenino (Italy)                                                                                                                                                            | Yoav Mintz (Israel)                                                                                                                                                                                                                                        |
|       | State of the art of robotics and surgery - Young-Woo Kim<br>(Korea)                                                    | <b>Keynote:</b> Innovative Medical Devices Based on Natural Materials - Ipsita Roy (UK)                                                                                             | OC 141: Artack: A mesh fixation tacking device with potential robotic interface - Amir Szold (Israel)                                                                                                                                                      |
|       | Is there a future in robot assisted minimally invasive surgery? - Paolo Fiorini (Italy)                                | <b>Keynote:</b> Science for Industry – Advanced Materials for Biomedical Applications – Xiang Zhang (UK)                                                                            | OC 143: Performance assessment and training using MST core<br>software: Instrument-tracking using video analysis software -<br>Amir Szold (Israel)                                                                                                         |
|       | Surgical robots of the future: more dexterity through variable-<br>stiffness instruments - Kaspar Althoefer (UK)       | OC 41: Low Melting Point Materials as controllable stiffness mechanism for endoscopic and catheter applications - Loïc Blanc (Belgium)                                              | OC 2: Is Reduced port laparoscopic cholecystectomy any better<br>than the gold standard? To assess surgeon stress and workload:<br>a randomized controlled trial - Yasuhiro Ishiyama, Yoshiaki Hara,                                                       |
|       | Current developments in Operative Flexible Endoscopy: The ISI-<br>scope - Silvana Perretta (France)                    | OC 45: Towards a new patient-specific, modular aortic vascular phantom with clinically relevant mechanical properties - Helge                                                       | Yuta Enami, Syouji Shimada, Kenta Nakahara, Chiyo Maeda,<br>Naruhiko Sawada, Fumio Ishida, Shin-ei Kudo (Japan)                                                                                                                                            |
|       | Computer vision and robotics for augmenting the surgeon's capabilities during the intervention - Elena De Momi (Italy) | Wurdemann, Shervanthi Homer-Vanniasinkam, Gaetano<br>Buriesci, Andrea Palombi (UK), Antonio Gallarello, Elena De<br>Momi (Italy)                                                    | OC 52: Changes in Abdominal wall thickness during<br>laparoscopy: Implications for the Use of magnetic assisted<br>surgery - Yoav Mintz, Noam Shussman, Gad Marom, Lisandro                                                                                |
|       | Advances in Surgical Robotics - Bruno Siciliano (Italy)                                                                | OC 32: Improving functional recovery after radical prostatectomy: in vitro evidences on a chitosan-based medical                                                                    | Luques, Ram Elazary, Mahmoud Abu-Gazala, Alon Pikarsky,<br>Liat Appelbaum, Ronit Brodie (Israel)                                                                                                                                                           |
|       |                                                                                                                        | device – Stefano Geuna, Luisa Muratori, Federica Fregnan,<br>Riccardo Bertolo, Francesco Porpiglia (Italy)<br><b>Keynote:</b> Clinical validation of medical devices in Europe: new | OC 83-91: Analysis of localized muscle fatigue in single incision<br>endoscopic surgery - Francisco Miguel Sánchez Margallo, Juan<br>Alberto Sánchez Margallo, Kostantinos Gianikellis (Spain),<br>Andreas Skiadopoulos (USA)                              |
|       |                                                                                                                        | regulatory challenges - Alice Ravizza (Italy)                                                                                                                                       | OC 135: Single-Incision laparoscopic cholecystectomy is responsible for increased adverse events: results of a meta-<br>analysis of randomized controlled trials – Edoardo Forcignagnò, Alberto Arezzo, Roberto Passera, Lisa Rapetti, Mario Morino        |
|       |                                                                                                                        |                                                                                                                                                                                     | OC 121: Calore Secure Port Closure - Yoav Mintz, Jonathan<br>Yuvald, Giora Kornblau, David Neustadter, Ronit Brodie (Israel)                                                                                                                               |
|       |                                                                                                                        |                                                                                                                                                                                     | OC 89: Laparoscopic cutting using Radius r2 DRIVE<br>instruments: Surgeon's performance and muscular intervention -<br>Francisco Miguel Sánchez Margallo, Juan Alberto Sánchez<br>Margallo, Kostantinos Gianikellis (Spain), Andreas Skiadopoulos<br>(USA) |
|       |                                                                                                                        |                                                                                                                                                                                     | OC 39: Finite element analysis in colorectal surgery: preliminary results on the interaction between tissue and surgical tool - Robinson Guachi, Michele Bici, Fabiano Bini, Laura Lorenzon, Francesca Campana, Franco Marinozzi (Italy)                   |
|       |                                                                                                                        |                                                                                                                                                                                     |                                                                                                                                                                                                                                                            |

|       | ROOM A                                                                                                                                                                                                                                                                  | ROOM B                                                                                                                                                                                                                                                                                                                                                                                                                                               | ROOM C                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 12.30 |                                                                                                                                                                                                                                                                         | Lunch                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 13.30 | S10 - <u>Present and future of colon cancer</u><br><u>diagnosis</u>                                                                                                                                                                                                     | S20 - <u>Nanomedicine tools supporting / replacing</u><br>surgery                                                                                                                                                                                                                                                                                                                                                                                    | S29 - <u>Diagnostic systems</u>                                                                                                                                                                                                                                                                                                                                                                                                                    |
|       | Chairs:<br>Eiji Kanehira (Japan)<br>Roel Hompes (UK)                                                                                                                                                                                                                    | Chairs:<br>Paolo Netti (Italy)<br>Enrica Verne' (Italy)                                                                                                                                                                                                                                                                                                                                                                                              | Chairs:<br>Helge Wuerdmann (UK)<br>Marco Knaflitz (Italy)                                                                                                                                                                                                                                                                                                                                                                                          |
|       | New ways for colorectal cancer screening - Carlo Senore (Italy)<br>Present and future of robotic capsule endoscopy - Pietro<br>Valdastri (UK)<br>The ENDOVESPA project - Gastone Ciuti (Italy)<br>EndoMASTER, Transported and other robotic systems for                 | <ul> <li>Keynote: Materials and processes to engineering 3D viable human tissues in vitro – Netti (Italy)</li> <li>ERC Corner 1: Multifunctional hybrid nanovectors: a new tool to overcome highly invasive tumor resistance - Ciofani (Italy)</li> <li>ERC Corner 2: Smart stimuli-responsive nanoconstructs for cancer theranostics - Tania Limongi, Nadia Garino, Giancarlo Canavese, Marco Laurenti, Luisa Racca, Marta Canta, Bianca</li> </ul> | <ul> <li>Keynote: Advancements in Transcatheter aortic valve<br/>replacement (TAVR) – Data mining using soft robotic balloon<br/>catheters - Helge Wuerdmann (UK)</li> <li>OC 107: Detection of acute upper gastrointestinal bleeding with<br/>the HemoPill acute – a set of volunteer experiments - Melanie<br/>Zimmermann, Sebastian Schostek, Mario Fode, Jan Keller,<br/>Michael Melbert, Thomas Gottwald, Marc O. Schurr (Germany)</li> </ul> |
|       | operative flexible endoscopy – Philip Wai-yan Chiu (Hong Kong)<br>FTRD in full-thickness resection of colorectal lesions: a meta-<br>analysis of current clinical data – Gianluca Angrisani (Italy)<br>Status and future of sentinel node detection in early colorectal | Dumontel, Andrea Ancona, Valentina Cauda (Italy)<br><b>ERC Corner 3:</b> MYKI: A Biodirectional MyoKinetic Implanted<br>Interface for Neural Control of Artificial Limbs – Christian Cipriani<br>(Italy)<br>OC 20: Ion-doped mesoporous bioactive glass nanoparticles as                                                                                                                                                                             | OC 128: Instrumentation of an external fixator for bone healing<br>process monitoring: preliminary results - Stefano Mazzoleni,<br>Elena Battini, Gastone Ciuti, Cesare Stefanini, Paolo Dario<br>(Italy), Fatima Omar Ahmed Ba Fakih (UAE)                                                                                                                                                                                                        |
|       | cancer: towards organ sparing surgery - Ronan Cahil (Irland)<br>Actual and future applications of fluorescence in colorectal<br>cancer surgery - Luigi Boni (Italy)                                                                                                     | antibacterial agents in tissue regeneration - Alessandra Bari,<br>Carlotta Pontremoli, Sonia Fiorilli, Chiara Vitale Brovarone<br>(Italy), Joanna Shepherd, Sheila MacNeil (UK)<br>OC 23: Magneto-Plasmonic nanoparticles for photodynamic<br>therapy - Cristina Multari, Marta Miola, Francesco Labiano,                                                                                                                                            | OC 130: Colonoscopic Tactile Instrument to improve cancer<br>detection sensitivity - Federico Bianchi, Enrico Trallori,<br>Domenico Camboni, Calogero Maria Oddo, Arianna Menciassi,<br>Gastone Ciuti, Paolo Dario (Italy)                                                                                                                                                                                                                         |
|       |                                                                                                                                                                                                                                                                         | Roberto Gerbaldo, Doriana Debellis, Enrica Vernè (Italy),<br>Giuseppe Pezzotti (Japan)<br>OC 55: Antithrombogenic nano-coatings by doping into<br>amorphous carbon films for blood contacting medical devices -<br>Shunto Maegawa, Terumitsu Hasebe, Kenta Bito, Masamitsu<br>Nakaiama, Tomohiro Matsumoto, Tetsuya Suzuki (Japan)                                                                                                                   | OC 146: Automation in quantitative medical imaging and its role<br>as an enabling technology - Kristen Meiburger, Massimo Salvi,<br>Cristina Caresio, Rosaria Santoro, Francesco Angelini,<br>Francesco Amadeo, Isotta Chimenti, Maurizio Pesce, Umberto<br>Morbiducci, Filippo Molinari (Italy)                                                                                                                                                   |
| 15.15 | S11 - <u>Advances in rectal cancer</u><br><u>surgery</u>                                                                                                                                                                                                                | S21 - Organ repair & tissue engineering                                                                                                                                                                                                                                                                                                                                                                                                              | S30 - <u>NEURO@SMIT2017: New techniques and</u><br>devices in neurosurgery I                                                                                                                                                                                                                                                                                                                                                                       |
|       | Chairs:<br>Andrea Pietrabissa (Italy)<br>Gilberto Poggioli (Italy)                                                                                                                                                                                                      | Chairs:<br>Laura Montanaro (Italy)<br>Valeria Chiono (Italy)<br>Keynote: Redefining Identity of Disease, Tissue and Cells – A                                                                                                                                                                                                                                                                                                                        | Chairs:<br>Alessandro Ducati (Italy)<br>Franco Servadei (Italy)<br>From microscopy to endoscopy in the sellar parasellar tumours -                                                                                                                                                                                                                                                                                                                 |
|       | <b>Keynote:</b> Transanal Flexible robotic surgery: here now? Report<br>of the first endoluminal rectal excision on human - Vincent Obias<br>(USA)<br>Transanal Endoscopic Microsurgery: 35 years now - Eiji<br>Kanehira (Japan)                                        | <b>ERC Corner 4:</b> Smart bone-like scaffolds for osteoporotic fractures - Chiara Vitale Brovarone (Italy)                                                                                                                                                                                                                                                                                                                                          | 3D technology in sellar parasellar tumours - Francesco Zenga (Italy)                                                                                                                                                                                                                                                                                                                                                                               |

|                              | Keynote: Ta-TME & non-restorative abdomino-endoscopic<br>perineal excision of the anorectum – Roel Hompes (UK)<br>Robot for rectal cancer surgery - Paolo Pietro Bianchi (Italy)<br>OC 138: Transperineal minimally invasive approach in<br>Abdomino-perineal resection - Simone Arolfo (Italy) | <ul> <li>OC 3: Human Liver Stem Cells-derived Extracellular Vesicles reduce hepatic injury in a murine model of ex vivo hypoxic normothermic liver perfusion - Dorotea Roggio, Federica Rigo (Italy)</li> <li>OC 58: Design of a socket with variable stiffness for lower limb prosthesis – Michele Ibrahimi, Linda Paternò, Leonardo Ricotti, Arianna Menciassi (Italy)</li> <li>OC 73: Nanotechnology-Based Strategies To Treat Chronic Wounds - Chiara Tonda Turo, Monica Boffitto, Francesca Ruini, Alessandro Torchio, Rossella Laurano, Chiara Ceresa, Letizia Fracchia, Gianluca Ciardelli (Italy), Miguel Gisbert Garzaran, Miguel Manzano Garcia (Spain), Piergiorgio Gentile, Ana Marina Ferreira Duarte (UK)</li> <li>OC 88: Injectable polyurethane-based hydrogels for smart drug release in the treatment of chronic skin wounds - Rossella Laurano, Alessandro Torchio, Monica Boffito, Gianluca Ciardelli (Italy)</li> <li>OC 149: Collagen-based biomimetic smart scaffold for bone tissue engineering - Giorgia Montalbano (Italy)</li> </ul> | <ul> <li>S31 - NEURO@SMIT2017: New techniques<br/>and devices in neurosurgery II</li> <li>Chairs: Diego Garbossa (Italy), Uwe Spetzger<br/>(Germany)</li> <li>New intraoperative techniques for vascular neurosurgery – Fady<br/>T. Charbel (USA)</li> <li>Intraoperative real time navigation and new tracers technology<br/>for brain gliomas - Francesco Di Meco (Italy)</li> <li>Intraoperative CT in brain surgery - Giuseppe Barbagallo (Italy)</li> <li>Intraoperative O-arm in spine surgery - Maurizio Fornari (Italy)</li> <li>OC 151: Anatomic model for artery injury simulation in<br/>management of vascular complications in endoscopic endonasal<br/>surgery - Paolo Pacca (Italy)</li> <li>OC 102: Clinical Use of Intraoperative Decision-making<br/>Supporting System - Yuki Horise, Kitaro Yoshimitsu, Takashi<br/>Maruyama, Yroshi Iseki, Ken Masamune, Yoshiiro Muragaki<br/>(Japan)</li> <li>OC 115: Hyper-spectral imaging of the human brain reveals slow<br/>sinusoidal, hemodynamic oscillations at distinct frequencies,<br/>Herke Jan Noordmans, Doien Van Blooijs, Jeroel Siero, Jaco<br/>Zwanenburg, John Klaessens, Nik Ramsey (The Netherlands)</li> </ul> |
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| 17.00                        |                                                                                                                                                                                                                                                                                                 | Coffee break                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 17.00<br>-<br>19.00<br>20.00 | GENERAL ASSEMBLY                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 22.00                        | SMIT AWARDS<br>(iSMIT Best Abstract, iSMIT Best New Idea, iSMIT Rookie of the year, iSMIT Member Retriever, iSMIT Honorary Award)                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 22.30                        | CLOSING CEREMONY<br>Mario Morino (Italy), Arianna Menciassi (Italy), Gianluca Ciardelli (Italy)<br>Alberto Arezzo (Italy), Young-Woo Kim (Korea), Andreas Melzer (Germany)                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

## **Congress Venue:**

Dental School – University of Turin – Via Nizza 230, 10126 Torino, Italy

The conference will be held in the Dental School in the Turin University, which is located just outside the city center of Turin, in front of EATALY, on the third floor of Lingotto.

# **Organizing Secretariat**



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