yESAO

young researchers initiative

XLI ESAO conference, Rome, Italy 2014

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Students of all kinds, post-docs, clinicians, engineers, and scientists in early career stages will meet in Rome for the yESAO young researchers initiative. We are looking forward to exchange ideas and experiences, to improve the interaction between young scientists whose interests are focused on different research methods on artificial organs and to have fun doing effective networking.

Sept. 15th Monday - WALKING THROUGH BAROQUE ROME

19.00 **Meeting point:** St Peter's square. **Walk through:** Castel Sant' Angelo – Navona square – Pantheon – Trevi fountain.
20.30 **Dinner:** (place to be defined in the area of Trevi fountain)

Sept. 16th Tuesday - yESAO CONFERENCE AT GEMELLI POLYCLINICS

08.30 - 10.10 ORAL SESSION - I

08.30 - 08.50 - T. Verbelen, F. Rega, P. Claus, E. Verbeken, B. Meyns. A multivariate model to assess left and right ventricular remodeling and reverse remodeling in the animal lab.
08.50 - 09.10 - M. Granegger, S. Mahr, P. Aigner, D. Zimpfer, H. Schima, F. Moscato. The isolated heart as a tool in cardiovascular research.
09.10 - 09.30 - R. Fontana, G. Tortora, M. Silvestri, M. Vatteroni, M.G. Trivella, P. Dario. Sensorized platform for implantable artificial heart.
09.30 - 09.50 - P. Aigner, F. Moscato, M. Granegger, M. Stoiber, H. Schima. Development of an in-vitro setup for optical flow investigations in cardiac and cardiovascular flows.
09.50 - 10.10 - S.J. Sonntag. Computational and experimental methods in cardiovascular artificial organ development.

10.10 - 10.40 COFFEE BREAK

10.40 - 11.50 ORAL SESSION - II

10.40 - 11.00 - A. D'Amico, R. Ragusa, R. Caruso, T. Prescimone, M. Cabiati, S. Del Ry, M.G. Trivella, D. Giannessi, C. Caselli. From genomic to proteomic approach in biomarker discovery: the LVAD example.
11.00 - 11.20 - S.V. Jansen, S. Sonntag, U. Steinseifer. The potential of Ghost-cells for biomedical research.
11.20 - 11.40 - K. Zieliński, T. Gólczewski, P. Ładyżyński. A web-based simulation tool of the respiratory system for virtual experimentation and clinical training.

11.40 - 12.40 yESAO RAPID FIRE - MORNING SESSION

- S. Filippelli, G. Perri, G. Brancaccio, G. Frati and A. Amodeo. Two different methodologic approaches to achieve a consistent, stable and reproducible model of heart failure in swine model.
- S. Jacobs, J. Van Puyvelde, K. Van den Bossche, F. Rega, B. Meyns. Studying remodeling and reverse remodeling of the assisted left ventricle in the clinical setting.
- Y. Zheng, S. Sandeman, C. Howell, G. Ingavle, S. Mikhalovsky. In vitro small scale perfusion models for testing haemoperfusion adsorbents.
- M. Pietribiasi. Smoothing methods for blood volume data in hemodialysis.
- J. Schaller, F. Hellmeier, B. Mönnich. The rickety path from computational fluid dynamics to blood damage estimation.
- V. Minni, A. Di Molfetta, L. Santini, G.B. Forleo, K. Mahfouz, L. Fresiello, A. Capria, G. Magliano, D. Sergi, G. Ferrari, F. Romeo. A multiparametric evaluation strategy for identifying responders to CRT, significantly improves selection of best candidates.

12.40 - 13.40 LUNCH

13.40 - 14.50 yESAO RAPID FIRE - AFTERNOON SESSION

- A. Poorkhalil, A. Kashefi, K. Mottaghy. A new method to evaluate for a high altitude training by measuring the partial pressure of gases in arterial blood.
- P. Bagnoli. Managing in vivo animal trials of total liquid ventilation with a new neonatal ventilator prototype.
- K.J. Pałko, T. Gólczewski, M. Michnikowski, R. Krenke, M. Grabczak. Pleural manometry in monitoring respiratory effort during therapeutic thoracentesis (methodology for science and clinical practice).
- J. Masin-Spasovska and G. Spasovski. Nitric Oxide levels during early post-transplant causes of renal allograft dysfunction. Can NO be used as a non-invasive marker for diagnosis of acute rejection?
- D. Siek, A. Ślósarczyk. Ionic substitutions in calcium phosphates based materials.
- G. Zhou, H. Loppnow, T. Groth. Characterization of inflammatory potential of model biomaterials using novel macrophage/fibroblast co-cultures.
- K. Vocetkova, M. Buzgo, M. Plencner, E. Amler. Immobilized thrombocites on PCL nanofibers promote melanocyte viability and proliferation in vitro.

14.50 - 15.30 DISCUSSION
15.30 - 16.00 COFFEE BREAK
16.00 - 17.30 VISITING LABORATORIES - PATIENTS' POINT OF VIEW
17.30 - 18.15 PRESENTATIONS NEW yESAO COORDINATORS CANDIDATES & ROUND TABLE FOR yESAO 2015

Sept. 16th Tuesday - WALKING THROUGH ANCIENT ROME (after yESAO conference)

19.00 **Meeting point:** Piramide/Ostiense station. **Walk through:** Circus Maximus – Capitoline Hill – Imperial Fora - Colosseum.
20.30 **Dinner:** (place to be defined in the area of Colosseum)

For further information: arianna.dimolfetta@ifc.cnr.it; bente.moennich@charite.de; libera.fresiello@gmail.com; marcus.granegger@meduniwien.ac.at; Tom.Verbelen@med.kuleuven.be; kpalko@ibib.waw.pl; jens.schaller@charite.de