

# Conference Agenda

## Session

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### IST.2: 2: In silico trials and clinical biomechanics

Time: Wednesday, 14/July/2021: 9:30am - 10:45am

Session Chair: Marco Viceconti

## Presentations

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### PT: MODELLING STROKE AND STROKE TREATMENT, PAVING THE WAY FOR IN-SILICO STROKE TRIALS

**A. Hoekstra<sup>1</sup>, C. Majoie<sup>2</sup>**

<sup>1</sup>University of Amsterdam, Netherlands, The; <sup>2</sup>Amsterdam University Medical Centers

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### Development of a low dimensional parametric model of high-fidelity virtual intra-arterial thrombectomy

**S. Bridio<sup>1</sup>, G. Luraghi<sup>1</sup>, M. Belloni<sup>1</sup>, A. García-González<sup>2</sup>, S. Pant<sup>3</sup>, F. Migliavacca<sup>1</sup>, J. F. Rodriguez Matas<sup>1</sup>**

<sup>1</sup>Politecnico di Milano, Italy; <sup>2</sup>Universitat Politècnica de Catalunya-BarcelonaTech, Spain; <sup>3</sup>Swansea University, Wales, UK

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### A PIPELINE FOR IN SILICO PREDICTION OF CORONARY STENTING SHORT TERM OUTCOMES

**L. Antonini<sup>1</sup>, G. Poletti<sup>1</sup>, F. Berti<sup>1</sup>, P. Tsompou<sup>2</sup>, A. Sakellarios<sup>2</sup>, G. Karanasiou<sup>2</sup>, D. Fotiadis<sup>2</sup>, G. Pennati<sup>1</sup>, L. Petrin<sup>3</sup>**

<sup>1</sup>aBS – Dept. of Chemistry, Materials and Chemical Engineering, Politecnico di Milano, Milan, Italy; <sup>2</sup>Dept. of Biomedical Research, FORTH-IMBB, GR 45110 Ioannina, Greece; <sup>3</sup>Dept. of Civil and Environmental Engineering, Politecnico di Milano, Milan, Italy

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### CLINICAL VALIDATION FOR REGULATORY QUALIFICATION OF IN SILICO TRIALS METHODOLOGIES

**M. Viceconti, G. Davico, C. Curreli, A. La Mattina**

Alma Mater Studiorum - University of Bologna, and Medical Technology Lab, IRCCS Istituto Ortopedico Rizzoli, Italy

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### Towards in silico phase III clinical trials for osteoporosis drugs: cohort expansion with anatomic statistical atlas

**A. A. La Mattina<sup>1,2</sup>, M. Taylor<sup>3</sup>, F. Baruffaldi<sup>2</sup>, M. Viceconti<sup>1,2</sup>**

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### REPORTING AND STANDARDISATION OF PLATE WORKING LENGTH (BRIDGE SPAN) IN FRACTURE HEALING STUDIES

**M. Heyland<sup>1</sup>, G. Russow<sup>1,2</sup>, L. Becker<sup>1,2</sup>, G. N. Duda<sup>1</sup>, D. Wulsten<sup>1</sup>, K. Schmidt-Bleek<sup>1</sup>, R. Seemann<sup>2</sup>, S. Märdian<sup>2</sup>**

<sup>1</sup>Julius Wolff Institut, Charité – Universitätsmedizin, Berlin, Germany; <sup>2</sup>Center for Musculoskeletal Surgery, Charité – Universitätsmedizin, Berlin, Germany