

Tuesday, 6th September 2022

	Room 2 (B002)	Room 3 (B003)	Room 4 (B032)	Room 5 (Sala de Atos)
09:30	Registration			
09:00 - 10:00				
10:00 - 11:00				
11:00 - 12:00				
12:00 - 13:00				
13:00 - 14:00				
14:00 - 15:00				
15:00 - 16:00				
16:00 - 17:00				
19:30	Students evening - Rooftop Flores, Rua da, Vitória 177, 4050-634 Porto, Portugal (metro station Sao Bento)			

10:00 - 13:00 Workshop 1
**USING COMPUCELL3D AS A PLATFORM TO CONSTRUCT
 MULTI-SCALE MULTICELLULAR AGENT-BASED VIRTUAL-
 TISSUE SIMULATIONS OF DEVELOPMENT AND DISEASE**

14:00 - 16:00 Workshop 2
**SIMCARDIOTEST OPEN SOURCE SOFTWARE – DEMO ON
 OASIS**

14:00 - 17:00 Workshop 3
**PUBLIC AND PATIENT OUTREACH AND ENGAGEMENT FOR
 IN SILICO MEDICINE**

Wednesday, 7th September 2022

	Auditorium (Auditorium 101)	Room 2 (B002)	Room 3 (B003)	Room 4 (B032)
07:30	Registration			
08:30 - 09:00	OPENING SESSION <i>Chairs: Liesbet Geris, João Manuel R.S. Tavares</i>			
09:00 - 9:45	Plenary lecture 1 <i>Chairs: Liesbet Geris, João Manuel R.S. Tavares</i> PATIENT-SPECIFIC MODELS IN TUMOR GROWTH: INTEGRATING ORGANOIDS AND IMAGE-BASED BIOMARKERS <i>José Manuel García-Aznar</i>			
9:45 - 10:15	Coffee break + Posters			
10:15 - 12:15	Session 1 <i>Chairs: Sónia Pinto, Sara Bridio</i> CARDIOVASCULAR 1	Session 2 <i>Chairs: Ilse Jonkers, Suranjana Gupta</i> COMPUTATIONAL MODELING IN HEALTH AND DISEASE 1	Session 3 <i>Chairs: Marco Viceconti, David Oks</i> IN SILICO CLINICAL TRIALS 1	Session 4 <i>Chairs: Rossana Alessandrello, Marcos Loureiro-Ga</i> MEDICAL DEVICE MODELLING 1
12:15 - 13:15	Lunch with Meet the Mentor programme			
13:15 - 14:15	POSTER SESSION 1; Chairs: Renato Natal Jorge, Laura Lafuente-Gracia POSTER SESSION 2; Chairs: Claudio Capelli, Sara Bridio <i>(Poster area)</i>		Session INDUSTRY: NOVADISCOVERY <i>Jinkō: from knowledge to in silico clinical trials</i>	
14:15 - 15:45	Session 5 <i>Chairs: Silvia Budday, Mojtaba Barzegari</i> COMPUTATIONAL TOOLS AND SIMULATION IN BIOMECHANICS 1	Session 6 <i>Chairs: Jérôme Noailly, Matteo Italia</i> COMPUTATIONAL MODELING IN HEALTH AND DISEASE 2	Session 7 <i>Chairs: Adriana Tavares, Ning Wang</i> CLINICAL IMAGING, IMAGE-BASED IN-VIVO ANALYSIS, IMAGING AND VISUALIZATION	Session 8 <i>Chairs: Tien Tuan Dao, Martina Bernini</i> MEDICAL DEVICE MODELING 2
15:45 - 16:15	Coffee break + Posters			
16:15 - 18:15	Session 9 <i>Chair: Thierry Marchal, Secretary general Avicenna Alliance</i> DIGITAL APPLICATIONS TO ASSIST REGULATORY AND CLINICAL EXPERTISE	Session 10 <i>Chairs: Daniela Valdez-Jasso, Suranjana Gupta</i> COMPUTATIONAL MODELING IN HEALTH AND DISEASE 3	Session 11 <i>Chairs: Flora Musuamba Tshinanu, Agnese Lucchetti</i> IN SILICO TRIALS FOR MEDICAL PRODUCT DEVELOPMENT	Session 12 <i>Chairs: Irène Vignon-Clémentel, Laura Lafuente-Gracia</i> MATHEMATICAL BIOMEDICAL MODELS 1
18:15 - 19:15	VPH INSTITUTE GENERAL ASSEMBLY: OPEN EVENT TO PRESENT THE INSTITUTE AND ITS ACTIVITIES IN A NUTSHELL			
19:30 - 21:00	WELCOME RECEPTION (Auditorium, Garden)			

Thursday, 8th September 2022

	Auditorium (Auditorium 101)	Room 2 (B002)	Room 3 (B003)	Room 4 (B032)
08:00	Registration			
08:30 - 10:30	Session 13 <i>Chairs: Luisa Sousa, Agnese Lucchetti</i> CARDIOVASCULAR 2	Session 14 <i>Chairs: Elisabete Silva, Satanik Mukherjee</i> MULTISCALE MODELING	Session 15 <i>Chairs: José Manuel García-Aznar</i> MECHANOBIOLOGY	Session 16 <i>Chairs: João Manuel R.S. Tavares, Hichem Hani</i> BIG DATA AND MACHINE LEARNING
10:30 - 11:00	Coffee break + Posters			
11:00 - 11:45	Plenary lecture 2 <i>Chairs: Renato Natal Jorge, Nele Famey</i> MICROSTRUCTURE-INFORMED IN SILICO MODELING OF THE HUMAN BRAIN <i>Silvia Budday</i>			
11:45 - 12:45	Lunch break			
12:45 - 13:45	POSTER SESSION 3; Chairs: Luděk Hynčík, Mojtaba Barzegari POSTER SESSION 4; Chairs: Andrew Narracott, Goncalo Almeida <i>(Poster area)</i>			
13:45 - 15:00	Session 17 <i>Chairs: Tien Tuan Dao, Morteza Rasouligandomani</i> COMPUTATIONAL TOOLS AND SIMULATION IN BIOMECHANICS 2	Session 18 <i>Chairs: David Elad, Robyn May</i> REPRODUCTIVE AND PREGNANCY MODELLING	Session 19 <i>Chairs: Marco Viceconti, Sumit Kumar</i> IN SILICO CLINICAL TRIALS 2	Session 20 <i>Chair: Georgios Stamatakos</i> CANCER EARLY DETECTION AND THERAPY
15:00 - 15:45	Plenary lecture 3 <i>Chairs: Alfons Hoekstra, Claudio Capelli</i> CONTRIBUTIONS OF MYOCARDIAL HYPERTROPHY AND STIFFENING TO RIGHT-VENTRICULAR REMODELING IN PULMONARY ARTERIAL HYPERTENSION <i>Daniela Valdez-Jasso</i>			
15:45 - 16.15	Coffee break + Posters			
16:15 - 18:15	IN SILICO TRIALS PANEL PLENARY /ECOSYSTEM FOR DIGITAL TWINS			
19:30	Conference dinner at the Taylors winery - Barao Fladgate restaurant: Rua do Choupelo 250, 4400-088 Vila Nova de Gaia, metro station Jardim do Morro (metro line D)			

Friday, 9th September 2022

	Auditorium (Auditorium 101)	Room 2 (B002)	Room 3 (B003)	Room 4 (B032)	Room 5 (Sala de Atos)
08:00	Registration				
08:45 - 10:15	Session 21 <i>Chair: Marco Viceconti</i> THE ROLE OF EXASCALE COMPUTING IN COMPUTATIONAL BIOMEDICINE	Session 22 <i>Chairs: Michael Sacks, Adelisa Avezzù</i> COMPUTATIONAL MODELING IN HEALTH AND DISEASE 4	Session 23 <i>Chairs: Andrew Narracott, Estefano Munoz-Moya</i> COMPUTATIONAL TOOLS AND SIMULATION IN BIOMECHANICS 3	Session 24 <i>Chairs: Saša Cukovic, Carlos Rodrigues</i> MUSCULOSKELETAL BIOMECHANICS (09:30 - 10:15)	
10:15 - 10:45	Coffee break + Posters				
10:45 - 11:30	Plenary lecture 4 <i>Chair: João Manuel R.S. Tavares</i> KINETIC MODELLING AND NETWORK ANALYSIS OF TOTAL-BODY PET DATA <i>Adriana Tavares</i>				
11:30 - 12:30	Session 25 <i>Chairs: Nele Famey, Morteza Rasouligandomani</i> COMPUTATIONAL TOOLS AND SIMULATION IN BIOMECHANICS 4	Session 26 <i>Chairs: Renato Natal Jorge, Robyn May</i> COMPUTATIONAL MODELING IN HEALTH AND DISEASE 5	Session 27 <i>Chairs: Liesbet Geris, Qiyao Peng</i> AGENT BASED MODELS	Session 28 <i>Chairs: Irène Vignon-Clémentel, Julius Zimmermann</i> MATHEMATICAL BIOMEDICAL MODELS 2	
12:30 - 13:15	Lunch break				
13:15 - 14:15	VPH INSTITUTE AWARDS				
14:15 - 14:45	CLOSING CEREMONY				
15:00 - 19:00	ASME V&V 40 TRAINING				