

## Tuesday, 6<sup>th</sup> September 2022

	Main Auditorium	Room 2	Room 3	Room 4
09:30	Registration			
09:00 - 10:00				
10:00 - 11:00	10:00 - 13:00 Workshop 1 <b>USING COMPUCELL3D AS A PLATFORM TO CONSTRUCT            MULTI-SCALE MULTICELLULAR AGENT-BASED VIRTUAL-            TISSUE SIMULATIONS OF DEVELOPMENT AND DISEASE</b>			
11:00 - 12:00				
12:00 - 13:00				
13:00 - 14:00				
14:00 - 15:00	14:00 - 16:00 Workshop 2 <b>SIMCARDIOTEST OPEN SOURCE SOFTWARE – DEMO ON            OASIS</b>	14:00 - 17:00 Workshop 3 <b>PUBLIC AND PATIENT OUTREACH AND ENGAGEMENT FOR            IN SILICO MEDICINE</b>		
15:00 - 16:00				
16:00- 17:00				
19:30				

### Wednesday, 7<sup>th</sup> September 2022

	Main Auditorium	Room 2	Room 3	Room 4
07:30	Registration			
08:30 - 09:00	<b>OPENING SESSION</b> <i>Liesbet Geris, Joao Manuel, R.S. Tavares</i>			
09:00 - 9:45	<b>Plenary lecture 1</b> <b>PATIENT-SPECIFIC MODELS IN TUMOR GROWTH: INTEGRATING ORGANOIDS AND IMAGE-BASED BIOMARKERS</b> <i>José Manuel García-Aznar</i>			
9:45 - 10:15	Coffee break + Posters			
10:15 - 12:15	<b>Session 1</b> <b>CARDIOVASCULAR 1</b>	<b>Session 2</b> <b>COMPUTATIONAL MODELING IN HEALTH AND DISEASE 1</b>	<b>Session 3</b> <b>IN SILICO CLINICAL TRIALS 1</b>	<b>Session 4</b> <b>MEDICAL DEVICE MODELLING 1</b>
12:15 - 13:30	Lunch with Meet the Mentor programme			
13:30 - 14:30	<b>POSTER SESSION 1, POSTER SESSION 2</b>		<b>Session</b> <b>INDUSTRY SESSION</b>	<b>Session</b> <b>INDUSTRY SESSION</b>
14:30 - 16:00	<b>Session 5</b> <b>COMPUTATIONAL TOOLS AND SIMULATION IN BIOMECHANICS 1</b>	<b>Session 6</b> <b>COMPUTATIONAL MODELING IN HEALTH AND DISEASE 2</b>	<b>Session 7</b> <b>CLINICAL IMAGING, IMAGE-BASED IN-VIVO ANALYSIS, IMAGING AND VISUALIZATION</b>	<b>Session 8</b> <b>MEDICAL DEVICE MODELING 2</b>
16:00 - 16:15	Coffee break + Posters			
16:15 - 18:15	<b>Session 9</b> <b>INDUSTRY CLINICAL SESSION</b>	<b>Session 10</b> <b>COMPUTATIONAL MODELING IN HEALTH AND DISEASE 3</b>	<b>Session 11</b> <b>IN SILICO TRIALS FOR MEDICAL PRODUCT DEVELOPMENT</b>	<b>Session 12</b> <b>MATHEMATICAL BIOMEDICAL MODELS 1</b>
18:15 - 19:15	VPH Institute General Assembly			
19:15 - 21:00	Welcome reception in the Garden of the Venue			

### Thursday, 8<sup>th</sup> September 2022

	Main Auditorium	Room 2	Room 3	Room 4
08:00	Registration			
08:30 - 10:30	Session 13 <b>CARDIOVASCULAR 2</b>	Session 14 <b>COMPUTATIONAL TOOLS AND SIMULATION IN BIOMECHANICS 2</b>	Session 15 <b>MECHANOBIOLOGY</b>	Session 16 <b>BIG DATA AND MACHINE LEARNING</b>
10:30 - 11:00	Coffee break + Posters			
11:00 - 11:45	Plenary lecture 2 <b>MICROSTRUCTURE-INFORMED IN SILICO MODELING OF THE HUMAN BRAIN</b> <i>Silvia Budday</i>			
11:45 - 12:45	Lunch break			
12:45 - 13:45	POSTER SESSION 3, POSTER SESSION 4		Session <b>INDUSTRY SESSION</b>	Session <b>INDUSTRY SESSION</b>
13:45 - 15:00	Session 17 <b>COMPUTATIONAL TOOLS AND SIMULATION IN BIOMECHANICS 3</b>	Session 18 <b>REPRODUCTIVE AND PREGNANCY MODELLING</b>	Session 19 <b>IN SILICO CLINICAL TRIALS 2</b>	Session 20 <b>CANCER EARLY DETECTION AND THERAPY</b>
15:00 - 15:45	Plenary lecture 3 <b>CONTRIBUTIONS OF MYOCARDIAL HYPERTROPHY AND STIFFENING TO RIGHT-VENTRICULAR REMODELING IN PULMONARY ARTERIAL HYPERTENSION</b> <i>Daniela Valdez-Jasso</i>			
15:45 - 16:15	Coffee break + Posters			
16:15 - 18:15	<b>IN SILICO TRIALS PANEL PLENARY /ECOSYSTEM FOR DIGITAL TWINS</b>			
19:30	Conference dinner at the Taylors winery			

**Friday, 9<sup>th</sup> September 2022**

	Main Auditorium	Room 2	Room 3	Room 4
08:00	Registration			
08:45 - 10:15	Session 21 <b>THE ROLE OF EXASCALE COMPUTING IN COMPUTATIONAL BIOMEDICINE</b>	Session 22 <b>COMPUTATIONAL MODELING IN HEALTH AND DISEASE 4</b>	Session 23 <b>MUSCULOSKELETAL</b>	Session 24 <b>MULTISCALE MODELING</b>
10:15 - 10:45	Coffee break + Posters			
10:45 - 11:30	Plenary lecture 4 <b>KINETIC MODELLING AND NETWORK ANALYSIS OF TOTAL-BODY PET DATA</b> <i>Adriana Tavares</i>			
11:30 - 12:30	Session 25 <b>COMPUTATIONAL TOOLS AND SIMULATION IN BIOMECHANICS 4</b>	Session 26 <b>COMPUTATIONAL MODELING IN HEALTH AND DISEASE 5</b>	Session 27 <b>MATHEMATICAL BIOMEDICAL MODELS 2</b>	Session 28 <b>AGENT BASED MODELS</b>
12:30 - 13:15	Lunch break			
13:15 - 14:15	<b>VPH INSTITUTE AWARDS</b>			
14:15 - 14:45	<b>CLOSING CEREMONY</b>			
14:45 - 18:45	Workshop <b>ASME V&amp;V 40 WORKSHOP</b>			