

**Barcelona VPH Summer School 2016. May 30th - June 3rd 2016, Barcelona**  
**Department of Information and Communication Technologies, Universitat Pompeu Fabra**

**Auditorium**

	Day 1	Day 2	Day 3	Day 4	Day 5
	<b>Pathophysiology</b>	<b>Input Measurements</b>	<b>Multiphysics / Multiscale Models</b>	<b>Computational Aspects</b>	<b>Applications</b>
	<i>Basic Science and Clinical Understanding</i>	<i>Acquisition, processing, quantification</i>	<i>Organ, cell, molecular</i>	<i>Implementation, validation, coupling</i>	<i>Understanding, decision-support, therapy support</i>
	<b>Keynote Speakers</b>				
09:30 - 11:00	<a href="#">Bart Bijnens, ICREA - UPF</a> Cardiovascular Pathophysiology	<a href="#">James Sharpe, ICREA-CRG</a> Imaging and Modelling in Organogenesis	<a href="#">Blanca Rodríguez, Oxford</a> Computational Cardiovascular Science	<a href="#">Christian Hellmich, TU Wien</a> Multiscale and Patient-specific Modelling of Bone	<a href="#">Maxime Sermessant</a> Patient-specific cardiac modelling
11:00	Coffee break				
11:30 - 12:30	<a href="#">Marta Sitges, IDIBAPS-Clinic Hospital</a> Clinical Cardiac Imaging	<a href="#">Mathieu de Craene, Philips</a> Cardiac Image Analysis	<a href="#">Jérôme Noailly, UPF</a> Spine Multiscale and Biophysical Modelling	<a href="#">Mariano Vázquez, Barcelona Supercomputing Center</a> High Performance Computational Modelling	<a href="#">Óscar Cámara, UPF</a> Cardiac Electrophysiology Modelling
12:30 - 13:30	<a href="#">Karin Würtz, ETHZ</a> Intervertebral Disc Pathophysiology	<a href="#">Gemma Piella, UPF</a> Machine Learning	<a href="#">Liesbet Geris, Univ. Liège</a> Complex and Gene Regulation Modelling of Osteochondral Systems	<a href="#">José Manuel García Aznar, Univ. Zaragoza</a> Cell and Collective Cell Modelling	<a href="#">Miguel Ángel González Ballester, ICREA - UPF</a> Computer-assisted Surgery
13:30 - 14:30	Lunch				
14:30 - 16:30	Hands-on Introduction	Hands-on	Hands-on	Hands-on	Presentation of Workshop results + Visit Alba Light Source
16:30 - 17:00		coffee - poster	coffee - poster	coffee - poster	
17:00 - 18:30	<a href="#">Visit Barcelona Supercomputing Center (starting 16:30h)</a>	Hands-on	Hands-on	Poster Awards	<a href="#">Visit ALBA Sunchrotron Light Source (starting at 16:00h)</a>
			Catalan Beer Tasting		