

Number	Title and outline	Organizers	Country
Tutorial 1	Physiome / VPH projects tools	Peter Hunter Poul Nielsen	NZ NZ
	<p>A tutorial to be run in conjunction with the regular symposium to provide hands-on experience of the Physiome Project software for (up to 80?) attendees.</p> <ul style="list-style-type: none"> • Hands on training sessions with physiome project software such as PCEnv/COR, JSim, Cmgui, Zinc, Continuity, openCMISS, etc. Computers and internet connections will be available. • Introduction to Physiome Project markup languages and how to create CellML & FieldML files. Note that a number of people from Auckland and Oxford will be available to help train people in the CellML and FieldML authoring tools. 		
Tutorial 2	Molecular imaging and physiological research	Yasuyoshi Watanabe Norihiro Sadato	JAPAN JAPAN
	<p>In vivo molecular imaging has become a key technology for drug development and pathophysiological science. We are mostly utilizing PET (Positron Emission Tomography) as a first-choice modality, because of its ultra-high sensitivity for molecules, adequate temporal and spatial resolution, and especially broad spectrum of target molecules. The present status for development of PET molecular probes, instrumentations including microPET, and the methods for quantitative analyses will be introduced in this tutorial with some examples. Molecular imaging could bring the high-quality information about key molecules as disease markers for diagnosis, direct follow-up, and demonstration of drug effect in living patients with symptoms. Molecular imaging is useful for drug development; especially, drug delivery system, pharmacokinetics and pharmacodynamics, dose finding information for individuals corresponding to SNP's, direct evidence for accumulation in non-target organs related to the adverse effects, and evidence for drug effects with surrogate markers. In the tutorial, several presentations from different technical aspects and also videos will be provided.</p>		
Tutorial 3	Bioinformatics for Physiology	Haruki Nakamura Kenta Nakai	JAPAN JAPAN
	<p>Bioinformatics now provides a powerful tool for understanding physiological phenomena from the multi-scale and multi-level view points, covering from genome, protein molecules, cells, to organs. In this tutorial, using representative softwares and databases with PCs linking to the Internet, several exercises for bioinformatics study will be given. The theme of this tutorial course will cover: Genome analysis, Protein expression, Protein structure modeling, and Protein-protein interactions and network. Several specialists in those fields will make brief introductory lectures at the beginning of the exercise courses.</p>		