

## **SIMULATION AND EXPERIMENTS OF COMPLEX PHYSIOLOGY FLOWS**

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### **ABSTRACT**

With this minisymposium we propose to bring together researchers of both computational and experimental disciplines, focusing on complex physiological flows that require innovative and state-of-the-art methodologies. The topics will be varied, ranging from the micro to macro scale, with equally varied applications. Importantly, we expect to involve experimental work as well as different non-classical numerical methods, providing a rich environment for discussion and awareness of topics, questions and solutions in the context of physiological flows.

Our goal is to provide a forum for discussion and exchange of ideas that will lead to the development of more realistic physical, mechanical and physiological models, and their future applications in computational fluid mechanics.

The organisers of this minisimposium will be participating, covering topics of: micro-circulation experiments and simulation, cardiovascular (cerebral and peripheral) and respiratory airways (external, nasal and upper lungs), experimental image-based analysis, non-Newtonian rheology, and geometric multiscale methods.

Confirmed speakers are from:

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j wr <1lego c'0u'0w'0r v'lego c'0r j r ""

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/'EGHV'\*Vt'cpur qt v'Rj gpqo gpc'Tgugctej 'Egpygt+.'HGWR.'Rqt vq'Wp'kxgtukv{.'Rqtwi cr0'  
j wr <1r ci k'pcu'0g'0w'0r 0'v'0'egh'0Y greqo g'0 vo n""

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j wr <1y y y 0'hur0 gej 0qj qmw'0e'0r l'pf gz'0 vo n""

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