

## NUMERICAL METHODS FOR FLUID FLOWS IN BIOMEDICAL APPLICATIONS

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### ABSTRACT

Modeling complex physical phenomena in biomedicine remains a challenging task. This minisymposium brings together experts in numerical and computational modelling of fluid flows in biological tissues at various scales. The objective of the minisymposium is to highlight recent progress in coupling of Multiphysics, in numerical discretizations of coupled problems, and their application to biomedical problems. Examples include but are not limited to coupled problems for image guided therapy and diagnosis on domains with co-dimension greater than one, high order methods for flow and transport, and physics-based neural network approaches.

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