

Minisymposium 39. Blood flows and applications

Sunday, June 15

9.00 – 9.20

A. Sequeira, V. Volpert. Introduction to the minisymposium

9.20 - 9.40

A. Farina. Modeling Hollow Fibers Dialyzers

9.40 – 10.00

J. Pavlova. A mathematical model of clot growth in flowing blood

10.00 – 10.20

A. Tosenberger. Modelling of platelet-fibrin clot formation in flow with a DPD-PDE method

10-20 – 10.40

A. Raoult. Some issues in modeling the atherosclerosis process

10.40 – 11.00

A. Sequeira. Image-based computational studies of shear-thinning effects in the progression of cerebral aneurysms.

11.00 – 11.20

O. Kafi. A 2D Mathematical Model of Blood Flow and its Interactions in an Atherosclerotic Artery

11.20-11.40 Break

11.40 – 12.00

E. Toro. Impact of extra-cranial venous anomalies on cerebral haemodynamics. Numerical study via a global model

12.00 – 12.20

J. Tiago. Optimal control applications in blood flow simulations

12.20 – 12.40

S. Simakov. Individualised 1D haemodynamics simulations for endovascular procedures and blood flow stimulation

12.40 – 13.00

V. Volpert. Deformable cell model with applications to blood flows