

Mathematical and numerical modeling of early atherosclerotic lesions

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Atherosclerosis is an inflammatory disease that starts with intima alterations. Medical evidence shows that atherosclerosis occurrence is closely linked to local hemodynamic factors through the action of the shear stress exerted by the lumen blood flow on the endothelium. In this talk i will present some mathematical models describing some aspects of the early formation of atherosclerotic lesions.

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