Coupled blood pressure dynamics in magisterial and small arteries networks and its stabilizing effect on heart functioning within the framework of computer model

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Computer model coupled blood pressure dynamics in magisterial and small arteries networks and its stabilizing effect on heart functioning has been suggested. The Fermi-Pasta-Ulam auto recurrence in the description of the electrical activity of the heart has demonstrated the universal role of the FPU recurrence in the study of distributed dynamical systems. The heart e ...

Blood Cell Concentration Oscillations in Healthy and Tumors Affected Organisms

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Daily oscillations in the concentrations of segmented neutrophils and lymphocytes in mice and humans (both healthy and affected by acute and genetically inherited leukemia, solid tumors and some inflammatory diseases) were studied. The analysis showed the breakage of phase synchronization of daily oscillations only in all cases of tumor diseases whereas is in case ...

Rational prediction of pharmacological treatment options for a novel KCN2-
Congenital disorders of cardiac repolarization are associated with risk of serious arrhythmias and sudden death. The Long QT Syndrome (LQTS) is well-established to predispose towards torsades de pointes [1].