



Oscillatory Flow Effects on Rat Aortic Smooth Muscle Cells

By Joachim Rapp

Diplom.De Jul 1997, 1997. Taschenbuch. Book Condition: Neu. 210x148x7 mm. This item is printed on demand - Print on Demand Titel. Neuware - Diploma Thesis from the year 1997 in the subject Medicine - Biomedical Engineering, grade: 1,2, Clark Atlanta University (unbekannt), language: English, abstract: Inhaltsangabe:Abstract: A cell culture System to mimic the circumferential expansion of the arterial wall was supplemented with a flow control System for model enhancement. The given System imposed uniaxial sinusoidal stretch (1 Hz) with a 10 % elongation to an elastic silicone substrate upon which rat aortic smooth muscle cells were cultured. Occurring fluid motion during a stretch experiment caused oscillating shear stress upon the Gell layer of approximately 0.6 dynes/cm² (60 x 10⁻³ N/m²) and was controlled by the newly added oscillatory flow System. Experiments were performed and investigated at 0, 4, and 24 hours. Morphological observations correlated with the results obtained by the initial stretch experiments. A final median angle of orientation of 60° - 70° from the axis of stretch was observed. Both control cultures remained randomly oriented throughout all experiments. Inhibition of cell proliferation alter 4 hours of cyclic stretch, observed by Karen J. Schnetzer could not be confirmed. However, growth...



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