

## Oscillatory Flow Effects on Rat Aortic Smooth Muscle Cells



Filesize: 4.32 MB

### **Reviews**

*Very useful to all of class of people. It is really simplified but unexpected situations within the 50 % in the ebook. I am delighted to let you know that this is actually the best book i have read in my personal daily life and can be he finest ebook for at any time.*  
**(Gwen Schultz)**

## OSCILLATORY FLOW EFFECTS ON RAT AORTIC SMOOTH MUSCLE CELLS

[DOWNLOAD](#)

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/cm<sup>2</sup> ( $60 \times 10^{-3} \text{ N/m}^2$ ) 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 related results did correspond to the preceding study in a qualitative manner. Influences of oscillatory flow an SMC growth and morphology were not different to the steady-stretch control. Analysis of results confirmed the assumption made for the earlier culture system, that effects of oscillatory fluid motion occurring during the cyclic stretch experiment could be neglected. Inhaltsverzeichnis:Table of Contents: AcknowledgmentsV List of FiguresIX List of TablesXI List of SymbolsXIII 1.Introduction1 2.Background and Literature Review3 2.1Arterial Anatomy4 2.2Arterial Physiology6 2.3Arterial Mechanics7 2.3.1Tensile Stress and Arterial Wall Deformation7 2.3.2Shear Stress8 2.4Arterial Pathology10 2.4.1Atherosclerosis10 2.4.2Hypertension12 2.4.3Smooth Muscle Cells in Arterial Disease12 2.5Cell Culture Models...

[Read Oscillatory Flow Effects on Rat Aortic Smooth Muscle Cells Online](#)[Download PDF Oscillatory Flow Effects on Rat Aortic Smooth Muscle Cells](#)

## Other Books



**Index to the Classified Subject Catalogue of the Buffalo Library; The Whole System Being Adopted from the Classification and Subject Index of Mr. Melvil Dewey, with Some Modifications .**

Rarebooksclub.com, United States, 2013. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.This historic book may have numerous typos and missing text. Purchasers can usually...

[Read Book »](#)



**Pickles To Pittsburgh: Cloudy with a Chance of Meatballs 2**

Atheneum Books for Young Readers, 2000. Paperback. Book Condition: New. No Jacket. New paperback print book copy of Pickles to Pittsburgh: Cloudy with a Chance of Meatballs 2 written by Judi Barrett. Drawn by Ron...

[Read Book »](#)



**The Trouble with Trucks: First Reading Book for 3 to 5 Year Olds**

Anness Publishing. Paperback. Book Condition: new. BRAND NEW, The Trouble with Trucks: First Reading Book for 3 to 5 Year Olds, Nicola Baxter, Geoff Ball, This is a super-size first reading book for 3-5 year...

[Read Book »](#)



**Read Write Inc. Phonics: Orange Set 4 Storybook 2 I Think I Want to be a Bee**

Oxford University Press, United Kingdom, 2016. Paperback. Book Condition: New. Tim Archbold (illustrator). 209 x 149 mm. Language: N/A. Brand New Book. These engaging Storybooks provide structured practice for children learning to read the Read...

[Read Book »](#)



**On the Go with Baby A Stress Free Guide to Getting Across Town or Around the World by Ericka Lutz 2002 Paperback**

Book Condition: Brand New. Book Condition: Brand New.

[Read Book »](#)

**Sleeping Beauty - Read it Yourself with Ladybird: Level 2**

Penguin Books Ltd. Paperback. Book Condition: new. BRAND NEW, Sleeping Beauty - Read it Yourself with Ladybird: Level 2, In this classic fairy tale, Sleeping Beauty pricks her finger on a spinning wheel and falls

[Save eBook »](#)

**Slavonic Rhapsodies, Op.45 / B.86: Study Score**

Petrucci Library Press, United States, 2015. Paperback. Book Condition: New. 244 x 170 mm. Language: English Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.The first of the three Slovanske rapsodie was composed from February 13

[Save eBook »](#)

**Peppa Pig: Camping Trip - Read it Yourself with Ladybird: Level 2**

Penguin Books Ltd. Paperback. Book Condition: new. BRAND NEW, Peppa Pig: Camping Trip - Read it Yourself with Ladybird: Level 2, Peppa Pig and her family are going on holiday in their camper van. Find

[Save eBook »](#)

**DK Readers Disasters at Sea Level 3 Reading Alone**

DK CHILDREN. Paperback. Book Condition: New. Paperback. 32 pages. Dimensions: 8.8in. x 5.7in. x 0.2in. From fog, ice, and rocks to cannon fire and torpedo attacks--read the story of five doomed sea voyages and the fate

[Save eBook »](#)

**Crochet: Learn How to Make Money with Crochet and Create 10 Most Popular Crochet Patterns for Sale: ( Learn to Read Crochet Patterns, Charts, and Graphs, Beginner s Crochet Guide with Pictures)**

Createspace, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.Getting Your FREE Bonus Download this book, read it to the end and

[Save eBook »](#)