

## Oscillatory Flow Effects on Rat Aortic Smooth Muscle Cells



Filesize: 5.19 MB

### ***Reviews***

*This written book is great. I am quite late in start reading this one, but better then never. You will not really feel monotony at at any moment of your time (that's what catalogues are for about when you check with me).*

***(Abe Reichel DDS)***

## OSCILLATORY FLOW EFFECTS ON RAT AORTIC SMOOTH MUSCLE CELLS

DOWNLOAD



To save **Oscillatory Flow Effects on Rat Aortic Smooth Muscle Cells** eBook, please access the button under and save the file or gain access to other information which are highly relevant to OSCILLATORY FLOW EFFECTS ON RAT AORTIC SMOOTH MUSCLE CELLS ebook.

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 x 10<sup>-3</sup> N/m<sup>2</sup>) 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**



**Download ePub Oscillatory Flow Effects on Rat Aortic Smooth Muscle Cells**

## Other PDFs



**[PDF] 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 .**

Click the web link listed below to read "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 ." file.

[Read eBook »](#)



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

Click the web link listed below to read "Pickles To Pittsburgh: Cloudy with a Chance of Meatballs 2" file.

[Read eBook »](#)



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

Click the web link listed below to read "The Trouble with Trucks: First Reading Book for 3 to 5 Year Olds" file.

[Read eBook »](#)



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

Click the web link listed below to read "Read Write Inc. Phonics: Orange Set 4 Storybook 2 I Think I Want to be a Bee" file.

[Read eBook »](#)



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

Click the web link listed below to read "On the Go with Baby A Stress Free Guide to Getting Across Town or Around the World by Ericka Lutz 2002 Paperback" file.

[Read eBook »](#)



**[PDF] Klara the Cow Who Knows How to Bow (Fun Rhyming Picture Book/Bedtime Story with Farm Animals about Friendships, Being Special and Loved. Ages 2-8) (Friendship Series Book 1)**

Click the web link listed below to read "Klara the Cow Who Knows How to Bow (Fun Rhyming Picture Book/Bedtime Story with Farm Animals about Friendships, Being Special and Loved. Ages 2-8) (Friendship Series Book 1)" file.

[Read eBook »](#)



**[PDF] The Three Little Pigs - Read it Yourself with Ladybird: Level 2**

Follow the hyperlink beneath to download "The Three Little Pigs - Read it Yourself with Ladybird: Level 2" PDF file.

[Download ePub »](#)



**[PDF] Peter Rabbit: the Angry Owl - Read it Yourself with Ladybird: Level 2**

Follow the hyperlink beneath to download "Peter Rabbit: the Angry Owl - Read it Yourself with Ladybird: Level 2" PDF file.

[Download ePub »](#)



**[PDF] Dom's Dragon - Read it Yourself with Ladybird: Level 2**

Follow the hyperlink beneath to download "Dom's Dragon - Read it Yourself with Ladybird: Level 2" PDF file.

[Download ePub »](#)



**[PDF] Slavonic Rhapsody in A-Flat Major, B.86.3: Study Score**

Follow the hyperlink beneath to download "Slavonic Rhapsody in A-Flat Major, B.86.3: Study Score" PDF file.

[Download ePub »](#)



**[PDF] Superhero Max- Read it Yourself with Ladybird: Level 2**

Follow the hyperlink beneath to download "Superhero Max- Read it Yourself with Ladybird: Level 2" PDF file.

[Download ePub »](#)



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

Follow the hyperlink beneath to download "Sleeping Beauty - Read it Yourself with Ladybird: Level 2" PDF file.

[Download ePub »](#)