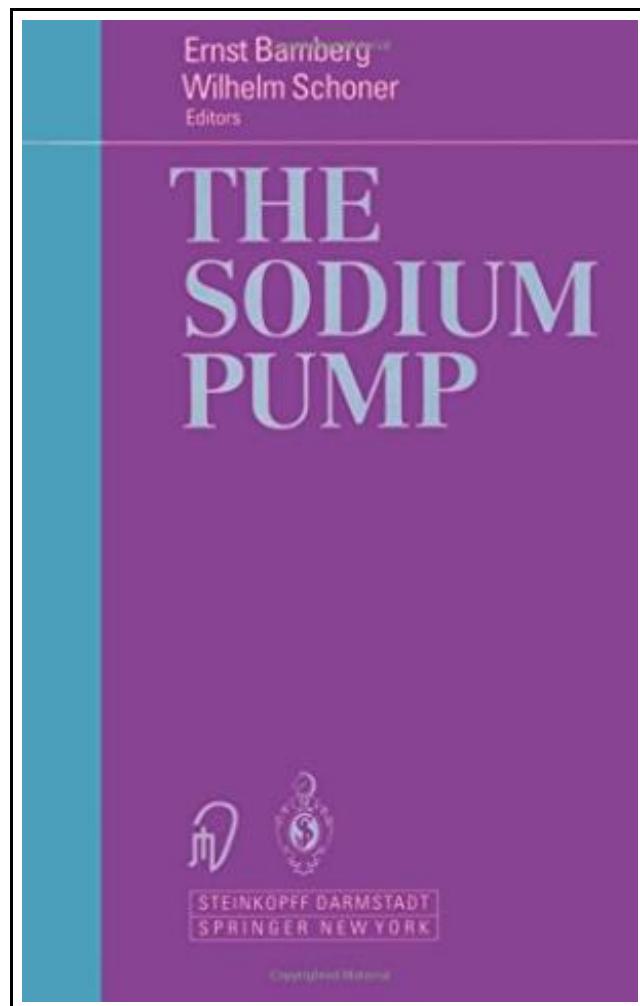


## The Sodium Pump



Filesize: 8.52 MB

### Reviews

*I actually started reading this article ebook. I actually have read and i also am certain that i will likely to go through once again again in the future. You are going to like just how the article writer compose this ebook.*  
**(Mariane Kerluke)**

## THE SODIUM PUMP

[DOWNLOAD](#)

Book Condition: New. Publisher/Verlag: Springer, Berlin | Structure Mechanism, Hormonal Control and its Role in Disease | The sodium of animal cell membranes converts the chemical energy obtained from the hydrolysis of adenosine 5'-triphosphate into a movement of the cations  $\text{Na}^+$  and  $\text{K}^+$  against an electrochemical gradient. The gradient is used subsequently as an energy source to drive the uptake of metabolic substrates in polar epithelial cells and to use it for purposes of communications in excitable cells. The biological importance of the sodium pump is evident from the fact that between 20-70% of the cell's metabolic energy is consumed for the pumping process. Moreover, the sodium pump is an important biological system involved in regulatory processes like the maintenance of the cell's and organism's water metabolism. It is therefore understandable that special cellular demands are handled better by special isoforms of the sodium pump, that the expression of the sodium pump and their isoforms is regulated by hormones as is the activity of the sodium pump via hormone-regulated protein kinases. Additionally, the sodium pump itself seems to be a receptor for a putative new group of hormones, the endogenous digitalis-like substances, which still have to be defined in most cases in their structure. This group of substances has its chemically well known counterpart in steroids from plant and toad origin which are generally known as "cardiac glycosides". They are in medical use since at least 200 years in medicine in the treatment of heart diseases. | Gene organization, analysis of the sodium pump by molecular biology.- Transcription factors regulating the  $\text{Na}^+/\text{K}^+$ -ATPase genes.- Expression of functional  $\text{Na}^+/\text{K}^+$ -ATPase in yeast.- Expression of functional  $\text{Na}^+/\text{K}^+$ -ATPase in insect cells using baculovirus.- Sp1 and an E-box binding protein regulate  $\text{Na}^+/\text{K}^+$ -ATPase  $\alpha$ -subunit gene.- Cloning and...

[Read The Sodium Pump Online](#)[Download PDF The Sodium Pump](#)

## Relevant Books

---



### **TJ new concept of the Preschool Quality Education Engineering the daily learning book of: new happy learning young children (3-5 years) Intermediate (3)(Chinese Edition)**

paperback. Book Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment.Paperback. Pub Date :2005-09-01 Publisher: Chinese children before making Reading: All books are the...

[Save PDF »](#)

---



### **TJ new concept of the Preschool Quality Education Engineering the daily learning book of: new happy learning young children (2-4 years old) in small classes (3)(Chinese Edition)**

paperback. Book Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment.Paperback. Pub Date :2005-09-01 Publisher: Chinese children before making Reading: All books are the...

[Save PDF »](#)

---



### **The Voyagers Series - Africa: Book 2 (Paperback)**

Voyagers Series, Inc., United States, 2011. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.The Voyagers Series is a new multi-media, multi-disciplinary approach to teaching...

[Save PDF »](#)

---



### **Riding the Yellow Trolley Car**

The Viking Press. Hardcover. Book Condition: New. 0670842117 Never Read-12+ year old Hardcover book with dust jacket-may have light shelf or handling wear-has a price sticker or price written inside front or back cover-publishers mark-Good...

[Save PDF »](#)

---



### **Read Write Inc. Phonics: Yellow Set 5 Storybook 7 Do We Have to Keep it? (Paperback)**

Oxford University Press, United Kingdom, 2016. Paperback. Book Condition: New. Tim Archbold (illustrator). 211 x 101 mm. Language: N/A. Brand New Book. These engaging Storybooks provide structured practice for children learning to read the Read...

[Save PDF »](#)