

Lack of effect of specific sodium hunger on learned aversions to sodium and sucrose

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Frumkin (1975) reported that sodium-deficient rats fail to learn taste aversions to NaCl. However, those rats were sodium-deficient at the time of testing as well as at the time of training; any learned aversion could have been masked by a strong sodium hunger. Rats were made temporarily sodium-hungry by injections of Formalin or aldosterone. They were then poisoned after drinking both an NaCl and a sucrose solution. Several days later they were tested for learned aversions. Rats trained under the influence of aldosterone did not differ from controls. Rats trained under the influence of Formalin acquired slightly weaker aversions to both NaCl and sucrose. Thus there is no evidence that sodium deficiency alters the associability of NaCl with poison.

Rats which are poisoned after ingesting some substance acquire an aversion to the taste of that substance (Garcia, Ervin, & Koelling, 1966; Garcia & Koelling, 1966; Rozin & Kalat, 1971). If a rat drinks more than one solution prior to poisoning, it may acquire a stronger aversion to one solution than to the other (Kalat & Rozin, 1970). One determinant of the salience of various tastes in this situation is their novelty; rats which drink two solutions prior to poisoning acquire a stronger aversion to the more novel solution (Kalat, 1974; Revusky & Bedarf, 1967).

Frumkin (1975) has recently proposed an additional determinant of how associable a taste is with poison. He reported that sodium-deficient rats learned much weaker aversions than normal rats if the taste of NaCl was paired with poison. Similarly, calcium-deficient rats learned weaker than normal aversions if calcium was paired with poison. Such results suggest a possible predisposition of rats to avoid associating a taste with poison while they have a specific hunger for that taste.

However, another, less interesting, interpretation is possible. Frumkin produced sodium deficiency and calcium deficiency by removal of the adrenal and parathyroid glands, respectively. Because these removals are permanent, the rats were sodium- or calcium-deficient at the time of testing as well as the time of training. It is certainly possible that these rats had learned aversions to sodium or calcium, but that the specific hungers for these minerals overrode the aversions (see Cullen, 1969; Rozin & Kalat, 1971; Stricker & Wilson, 1970). For analogy, if an experi-

menter paired breathing with shock and the animals failed to stop breathing, it would not be proper to conclude that they had failed to learn.

In order to test the effect of sodium hunger on the associability of sodium with poison, it would be best to produce a temporary sodium hunger which could be present at the time of training but absent during the test. In Experiment 1, we produced temporary sodium deficiency by injections of Formalin. In Experiment 2, we produced sodium hunger without sodium deficiency by injections of aldosterone.

The experiments were designed to minimize one other possible problem in the interpretation of results. Suppose that sodium-deficient rats learned either a stronger or a weaker aversion to NaCl than the normal rats. A possible interpretation would be that the poison was either more aversive or less aversive, respectively, to the sodium-deficient rats. (The latter possibility is not totally implausible. It could be that when a rat is already ill, a further increase in illness might be less significant to the rat than if the rat had previously been healthy.) To avoid this problem, we poisoned sodium-hungry rats after they drank both a sucrose solution and an NaCl solution. We could conclude that sodium hunger altered the associability of NaCl only if the sodium-hungry rats showed either a stronger or weaker NaCl aversion than the controls, *without* showing a correspondingly stronger or weaker aversion to sucrose.

EXPERIMENT 1

Method

The subjects were 40 adult female rats, mean weight 285 g, which had been born and reared in the authors' laboratory. The ancestry was mixed, consisting mostly of Sprague-Dawley albino; however, pigmented rats were used preferentially for breeding.

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Sodium Hunger

**Ruth Harris, Ruth B.S. Harris, Richard
D. Mattes**



Sodium Hunger:

Calcium Hunger Jay Schulkin, 2001 This book brings together the behavioral physiological and neuroendocrine regulation of calcium An understanding of how the brain orchestrates whole body demands for calcium is introduced The approach is one in which behavior in addition to physiology serves bodily maintenance The book links basic and clinical literature surrounding calcium homeostasis as a wide variety of clinical syndromes are tied to calcium metabolism Because calcium is so important during life stages particular to women an emphasis is placed on the relevance of calcium to women's health throughout the book though not exclusively since calcium is fundamental to both sexes *The Neuroendocrine*

Regulation of Behavior Jay Schulkin, 1999 In this text Jay Schulkin discusses and emphasizes the important roles of steroids and neuropeptides in the regulation of behavior The guiding principle behind much of the research and insights that are presented in the book is the concept of using certain model animal systems to study how hormones influence the brain The results from these model systems can then be used to generalize the information obtained and apply it to other animals and humans Senior undergraduate and graduate students in neuroscience endocrinology psychology and physiology will find this text a useful guide to the role of hormones in behavior It should be of use to colleagues in the field and medical health care professionals

The Hunger for Salt Derek A. Denton, 1982 Abstract Various aspects of salt ingestion are discussed in an authoritative reference text 27 chapters for clinical nutritionists dietitians health anthropologists and other health professionals Topics include the relevance of sodium Na in body fluids Na deficiency and salt appetite hominoid evolution and historical aspects of salt and specific effects of Na deficiency physiologic effects salt taste and response water depletion rapid systemic correction of Na deficiency and endocrine effects of rapid satiation of salt appetite The discussion of factors which influence salt appetite covers plasma volume change hepatic Na receptors the renin angiotensin system and experimental hypertension and salt appetite during reproduction Clinical studies are cited and theories on the genesis and satiation of salt appetite are reviewed Related topics which are discussed include the stimulating effect of steroids on salt appetite electrical stimulation the appetite for phosphate calcium magnesium and potassium and salt intake and high blood pressure wz

Motivation Roderick Wong, 2000-07-03 This book presents an analysis of motivated behaviour from a biological perspective Neurobiology of Body Fluid Homeostasis Laurival Antonio De Luca Jr., Jose Vanderlei Menani, Alan Kim Johnson, 2013-10-01 A timely symposium entitled Body Fluid Homeostasis Transduction and Integration was held at Araraquara S o Paulo Brazil in 2011 This meeting was convened as an official satellite of a joint gathering of the International Society for Autonomic Neuroscience ISAN and the American Autonomic Society AAS held in Buzios Rio de Janeiro Broad international participation at this event generated stimulating discussion among the invited speakers leading to the publication of *Neurobiology of Body Fluid Homeostasis Transduction and Integration* Drawn from the proceedings and filled with rich examples of integrative neurobiology and regulatory physiology this volume Provides updated research using

human and animal models for the control of bodily fluids thirst and salt appetite Explores neural and endocrine control of body fluid balance arterial pressure thermoregulation and ingestive behavior Discusses recent developments in molecular genetics cell biology and behavioral plasticity Reviews key aspects of brain serotonin and steroid and peptide control of fluid consumption and arterial pressure The book highlights research conducted by leading scientists on signal transduction and sensory afferent mechanisms molecular genetics perinatal and adult long term influences on regulation central neural integrative circuitry and autonomic neuroendocrine effector systems The findings discussed by the learned contributors are relevant for a basic understanding of disorders such as heat injury hypertension and excess salt intake A unique reference on the neurobiology of body fluid homeostasis this volume is certain to fuel additional research and stimulate further debate on the topic

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Taste Lloyd M. Beidler, 2012-12-06 Taste receptors monitor the quality of all the food ingested They are intimately involved in both food acceptance and rejection The sensation of taste is also important in the regulation of many specific chemicals necessary for maintenance of the body For example disturbance of the adrenal glands results in a change in the intake of salt which is necessary for regulation of the sodium balance Curt Richter's early studies on specific hungers and preference thresholds initiated a large number of studies in this field The relationship between taste and food intake is now well recognized by physiologists psychologists and nutritionists Our current concepts of the neural coding of taste quality and intensity are largely based upon the classical paper by PFAFFMANN in 1941 Many subsequent single nerve fiber studies have added to our understanding In recent years Zotterman and Diamant have successfully recorded from the human taste nerves as they pass through the middle ear This allowed them to study the relationships between the response of taste

receptors and the resultant taste sensation No similar feat has yet been accomplished with the visual and auditory systems
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Table of Contents Sodium Hunger

1. Understanding the eBook Sodium Hunger
 - The Rise of Digital Reading Sodium Hunger
 - Advantages of eBooks Over Traditional Books
2. Identifying Sodium Hunger
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Sodium Hunger
 - User-Friendly Interface
4. Exploring eBook Recommendations from Sodium Hunger
 - Personalized Recommendations
 - Sodium Hunger User Reviews and Ratings
 - Sodium Hunger and Bestseller Lists
5. Accessing Sodium Hunger Free and Paid eBooks
 - Sodium Hunger Public Domain eBooks
 - Sodium Hunger eBook Subscription Services
 - Sodium Hunger Budget-Friendly Options
6. Navigating Sodium Hunger eBook Formats

- ePub, PDF, MOBI, and More
- Sodium Hunger Compatibility with Devices
- Sodium Hunger Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Sodium Hunger
 - Highlighting and Note-Taking Sodium Hunger
 - Interactive Elements Sodium Hunger
- 8. Staying Engaged with Sodium Hunger
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Sodium Hunger
- 9. Balancing eBooks and Physical Books Sodium Hunger
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Sodium Hunger
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Sodium Hunger
 - Setting Reading Goals Sodium Hunger
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Sodium Hunger
 - Fact-Checking eBook Content of Sodium Hunger
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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