

## 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

**Lingsheng Yao**



## **Sodium Hunger:**

The Hunger for Salt D. Denton, 1982-08 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 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 *Advances in the Study of Behavior*, 1976-04-23 *Advances in the Study of Behavior* **Motivation** Roderick Wong, 2000-07-03 This book presents an analysis of motivated behaviour from a biological perspective **Thirst** David J. Ramsay, David Booth, 2012-12-06 At one time or another everyone has said I am thirsty Yet what causes this sensation of thirst It is obvious that a certain quantity of fluid must be present for the body to function normally How does a water deficit in the body then influence drinking habits But supposing the physiological need is met what about the psychological need or social need Water is certainly the most necessary fluid then why do we humans often prefer other beverages even at great cost of effort or money or health The subject of thirst and drinking behavior are uniquely discussed in this book For the first time both the physiological and the psychological aspects of water and beverage consumption are examined in one volume The many recent developments concerning how a lack of water is signalled physiologically and processed neurally to affect drinking behavior are critically surveyed Prospects for understanding the cultural and sensory influences on beverage consumption are mapped out The thirty one chapters by authorities in the field were all mutually reviewed and revised in the light of precirculated comments

and round table discussions Together they provide a complete picture of the current state of knowledge on what determines fluid consumption in human beings and animals

**Hormonally Induced Changes to the Mind and Brain** Bozzano G Luisa,2012-12-02 Describing the latest findings in both clinical and laboratory research this volume investigates the behavioral and neural affects of endocrine activity in animals and humans Each chapter discusses the relationship between normal endocrine control of behavior and the pathological consequences that result from endocrine abnormalities The relevance to mental health and basic regulatory homeostatic events are balanced with a basic understanding of how hormones affect behavior and the brain The book is written to appeal to a wide audience of readers from the educated lay person to the seasoned M D and research scientist Chapter topics include the effects of endocrine activity on homeostasis sexual behavior aggression circadian rhythms and affective disorders in addition to discussing steroid abuse adrenal steroid effects on the brain and a detailed investigation on the effects of cholecystokinin and oxytocin

**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

**Sodium Hunger** Jay Schulkin,1991 The hunger for sodium has been used as a model system in which to study how the brain produces motivated behaviour In this account of the field Jay Schulkin draws together information across a range of disciplines and topics ranging from the ecology of salt ingestion to the sodium molecule and the action of various hormones The phenomenon of sodium hunger was discovered by Curt Richter the great American psychobiologist over 50 years ago Its study has been of interest for some time to naturalists psychologists endocrinologists physiologists and neuroscientists This book offers a systematic account of the behaviour of the sodium hungry animal the endocrine and physiological mechanisms that act to maintain sodium balance and then act on the brain to promote the search for and the ingestion of salt Finally the book provides a description of a neural network that orchestrates the behaviour of salt seeking and salt ingestion Graduate students and research workers in psychology physiology and neuroscience will find valuable information in this review

**The Cambridge World History of Food** Kenneth F. Kiple,Kriemhild Coneè Ornelas,2000 A two volume set which traces the history of food and nutrition from the beginning of human life on earth through the present

**Mental Health Research Institute Staff Publications** University of Michigan. Mental Health Research Institute,1974

**Neural and Metabolic Control of Macronutrient Intake** Hans-Rudolf Berthoud,Randy J. Seeley,1999-10-25 When an excessive proportion of the human energy requirement is derived from fat the likelihood of obesity increases Any such

individual is at risk for diabetes and cardiovascular disease grave and costly health hazards The selective control of fat ingestion is a promising solution to these concerns Existing data suggests that macronutrient intake can be manipulated Further research is working to create pharmacological tools that will suppress fat consumption It will also be possible to fight obesity heart disease and diabetes Neural and Metabolic Control of Macronutrient Intake systematically discusses the known physiological mechanisms involved in macronutrient selection including their molecular genetic and neurochemical aspects The book is also a critical review of the hypothesis that ingestion of the three nutrients is regulated by separate neural control mechanisms leaving open the possibility that strategies could be devised to intervene in bodily control systems and alter the proportion of fat in the diet This reference provides three types of information First the basic background of the biochemical and physiological systems as they relate to macronutrient selection Second opinions and data concerning to what degree animals and humans show evidence of macronutrient selection And third evidence about how the central nervous system might be involved in the choices animals make among macronutrients

**The Control of Hunger in Health and Disease** Anton Julius Carlson,1919 *Hunger and Appetite in Fever* Jacob Meyer,1918 New York State Journal of Medicine ,1918 Chemical Diagnosis (bio Chemistry) Victor Gabriel Rocine,1925 **A Text Book of General Physiology for Colleges** Philip Henry Mitchell,1923 Secrets of Eternal Youth V. G. Rocine,1928 **Transactions of the American Fisheries Society** American Fisheries Society,1927 **Proceedings of the American Fisheries Society** American Fisheries Society,1927 **Transactions of the American Fish Culturists' Association** American Fisheries Society,1927 Report of the special meeting held at the Centennial exhibition Philadelphia Oct 6 1876 is included in Transactions of 6th annual meeting

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