

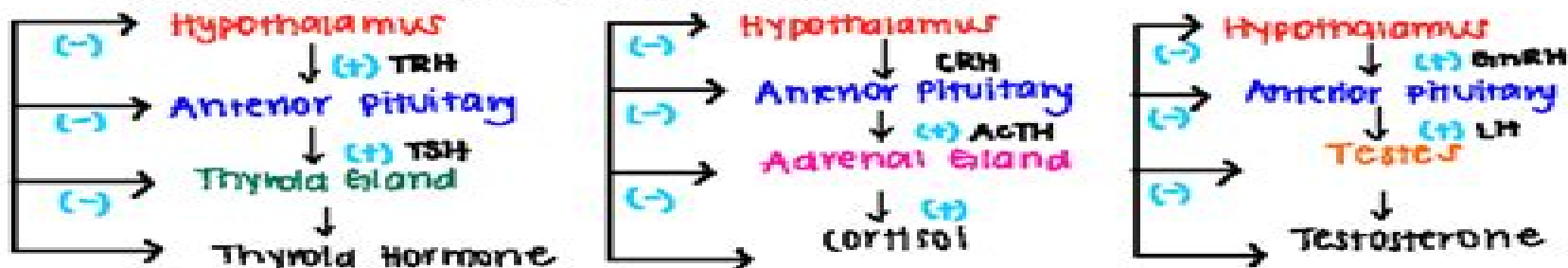
## Virtual Rat Endocrine Activity

Based on USING "VIRTUAL RATS" FOR UNDERSTANDING ENDOCRINE PHYSIOLOGY by Sandra V. Arora, Edyta Siga, J. P. Laythock, & Stephen E. DeGusta, Dept. of Physiology, Northeastern Ohio University College of Medicine.

### INTRODUCTION AND BACKGROUND:

The purpose of this exercise is for you to understand basic principles and important concepts regarding the endocrine system. In this exercise, you will observe the effects of unknown hormones on "virtual rats" and use your knowledge of the endocrine system in determining the hormone used. Control "virtual rats" are provided as normals to which all other values should be compared. Upon careful comparison of the hormone-treated "virtual rats" with the control "virtual rats", you will be able to determine the unknown hormone. This activity is based on the negative feedback control pathways for testosterone, cortisol and thyroid hormones.

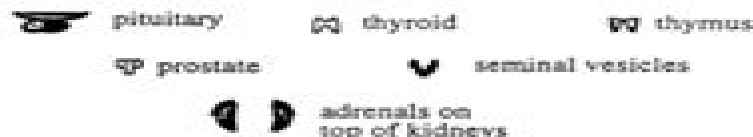
Write in the negative feedback control pathways for these hormones below:



### PROCEDURE:

In this exercise, you will determine the identity of an unknown hormone by observing the effect it has on the organs of the male rat.

The data for this lab were compiled from seven pairs of male rats; one pair was the control group and the remaining six pairs were experimental groups. In each set, there was an "intact" rat and a "castrate rat." Castration was removal of the testes to eliminate testosterone production. The two rats (normal and castrate) of each group were treated alike in all other ways (food, water, etc). All rats, except for those in the control group were injected with a hormone (ACTH, cortisol, LH, TRH, testosterone or TSH) on a daily basis for two weeks, sacrificed humanely and autopsied. Organ weights were measured at autopsy. Using your predictions of hormone effects and the autopsy data, match the rat groups with the hormone they were injected with. The following figure represents the rat organs weighed. The organs below appear on each rat. The pituitary is not drawn to scale, it is drawn larger than actual size. The seminal vesicles and prostate are targets of testosterone.



### Negative Feedback : output inhibits the input of a pathway

TRH that's secreted by the hypothalamus neurons stimulates anterior pituitary cells to release TSH. TSH attaches to receptors in the thyroid gland, promoting thyroid hormone production and secretion. Thyroid hormone secretion in the hypothalamus is blocked and stops secreting when bloods levels of hormones rise above a threshold.

# Virtual Rat Endocrine Activity Answers

**J Elliott**



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**Cumulated Index Medicus**, 1999 Metabolic Syndrome Consequent to Endocrine Disorders V., Popovic, M., Korbonits, 2018-04-05 Hormonal dysfunction can have a major and often complex impact on all key components of the metabolic syndrome This book comprises state of the art reviews on the subject written by recognized experts in the field of endocrinology Each chapter covers specific manifestations associated with the metabolic syndrome in classic endocrine diseases Compelling questions are highlighted and future directions presented The topics covered include hypopituitarism adrenal insufficiency acromegaly glucocorticoid excess androgen excess hypogonadism prolactin and thyroid and parathyroid hormone abnormalities This book is meant to inspire subsequent research related to metabolic complications in endocrine diseases thus enabling early detection as well as prompt and appropriate management Environmental Health Perspectives, 1993 *Current Trends in Drug Discovery, Development and Delivery (CTD4-2022)* Manikanta Murahari, Buchi N Nalluri, G Chakravarthi, 2023-12-15 This publication is based on peer reviewed manuscripts from the 2022 Conference on Current Trends in Drug Discovery Development and Delivery CTD4 2022 held at KL University India Providing a wide range of up to date topics on the latest advancements in drug design and discovery technologies this book ensures the reader receives a good understanding of the scope of the field Aimed at scientists students regulators academics and consultants throughout the world this book is an ideal resource for anyone interested in the state of the art in drug design and discovery *GPER Control and Functions* Yves Jacquot, Marilena Kampa, Sarah H. Lindsey, 2022-01-18 **Index Medicus**, 2001 *Nuclear Science Abstracts*, 1965-07 Biomedical Engineering Handbook Joseph D. Bronzino, 1999-12-28 Category Biomedical Engineering Subcategory Contact Editor Stern **Comprehensive Toxicology**, 2017-12-01 *Comprehensive Toxicology Third Edition Fifteen Volume Set* discusses chemical effects on biological systems with a focus on understanding the mechanisms by which chemicals induce adverse health effects Organized by organ system this comprehensive reference work addresses the toxicological effects of chemicals on the immune system the hematopoietic system cardiovascular system respiratory system hepatic toxicology renal toxicology gastrointestinal toxicology reproductive and endocrine toxicology neuro and behavioral toxicology developmental toxicology and carcinogenesis also including critical sections that cover the general principles of toxicology cellular and molecular toxicology biotransformation and toxicology testing and evaluation Each section is examined in state of the art chapters written by domain experts providing key information to support the investigations of researchers across the medical veterinary food environment and chemical research industries and national and international regulatory agencies Thoroughly revised and expanded to 15 volumes that include the latest advances in research and uniquely organized by organ system for ease of reference and diagnosis this new edition is an essential reference for researchers of toxicology Organized to cover both the fundamental principles of toxicology and unique aspects of major organ systems Thoroughly revised to include the latest advances in the toxicological

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