

9-1954

## International Symposium: The Hypophyseal Growth Hormone, Nature and Actions

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International Symposium  
THE HYPOPHYSEAL GROWTH HORMONE,  
NATURE AND ACTIONS

October 27, 28, 29, 1954

The professional staff of the Henry Ford Hospital with the initial advice and support of The Board of Trustees and Dr. Robin C. Buerki, Executive Director, of the Henry Ford Hospital, is sponsoring an international symposium on the subject The Hypophyseal Growth Hormone, Nature and Actions. This symposium will be held at the Henry Ford Hospital, October 27, 28, and 29, 1954, in the new auditorium. The preliminary program follows and has been prepared with the help of the advisory members.

Advisory Members:

Edwin E. Hays	Director of Research, Armour and Company, Chicago
Choh Hao Li	Professor of Biochemistry, University of California, Berkeley
C. N. H. Long	Sterling Professor of Physiology, Yale University School of Medicine, New Haven
Ephraim Shorr	Associate Professor of Medicine, Cornell University Medical College, New York

Local Members:

Richmond W. Smith, Chairman  
Oliver H. Gaebler, Vice-Chairman  
C. Paul Hodgkinson  
Joseph A. Johnston  
Paul D. Bartlett

## *Preliminary Program*

### 1st Morning Session

#### Bioassay, Preparation and Physicochemical Properties of Growth Hormone

- What is Growth?
- Methods of Detection and Assay of Growth Hormone
- Factors Influencing the Tibia Test
- Comparative Biochemistry of the Hormone from Ox, Sheep, Pig, Horse and Fish Pituitaries
- Somatotropin (Ox) as a Protein

### 1st Afternoon Session

#### Effects of Growth Hormone on Certain Structures

- Growth Hormone and the Digestive System
- Effect of Somatotrophic Hormone (STH) Upon Inflammation
- The Effect of Hormones on Differentiated Tissues in Culture
- Effect of Growth Hormone on the Skeletal System
- Growth Hormone and Renal Function

### 1st Evening Session

#### Reminiscences in the Field of Growth Hormone Investigation

### 2nd Morning Session

#### Growth Hormone and Energy Sources

- Importance of the Nutritional State to the Biological Function of Growth Hormone
- Growth Hormone and Nitrogen Retention
- Effects of Growth Hormone on the Metabolism of Amino Acids
- The Role of Insulin in Nitrogen Retention
- Effect of Growth Hormone on Liver Proteins and Nucleic Acids

## 2nd Afternoon Session

### Growth Hormone and Energy Sources

Diabetogenic Actions of Growth Hormone

Relation of Diabetogenic and Fat Mobilizing Actions of Pituitary Preparations to Growth Hormone

Relationship of the Adrenal Cortex to the Diabetogenic Action of Growth Hormone

Growth Hormone and Fat Metabolism

Factors Involved in the Ketogenic Action of Growth Hormone

## 2nd Evening Session

### Patterns of Growth in Human Organisms

## 3rd Morning Session

### Growth Hormone and Cellular Systems

Effect of Pituitary Hormones on Isolated Tissue Metabolism

Effect of Growth Hormone on Transaminases and Other Enzyme Systems

Antagonism *in vitro* Between Insulin and Pituitary Hormones

The Influence of Growth Hormone on Blood Insulin and Glucagon Activity

The Influence of Growth Hormone and Other Factors on the Islets of Langerhans and the Pancreas

## 3rd Afternoon Session

### Effects of Growth Hormone and Other Hormones on Mammary Gland Structure and Function

### Metabolic Effects of Growth Hormone in Human Subjects

### General Remarks Concerning Growth Hormone

## PARTICIPANTS

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