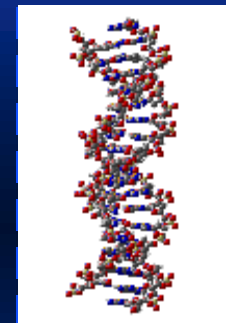




# GERONTOLÓGIA

## 9. Biogerontológia: öregedés és betegségek



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Egészségügyi Kar



DEBRECENI  
EGYETEM

# ÖREGEDÉS ÉS BETEGSÉGEK

*Relations Between Normal Aging and Disease,*  
edited by H. A. Johnson. Raven Press © 1985.

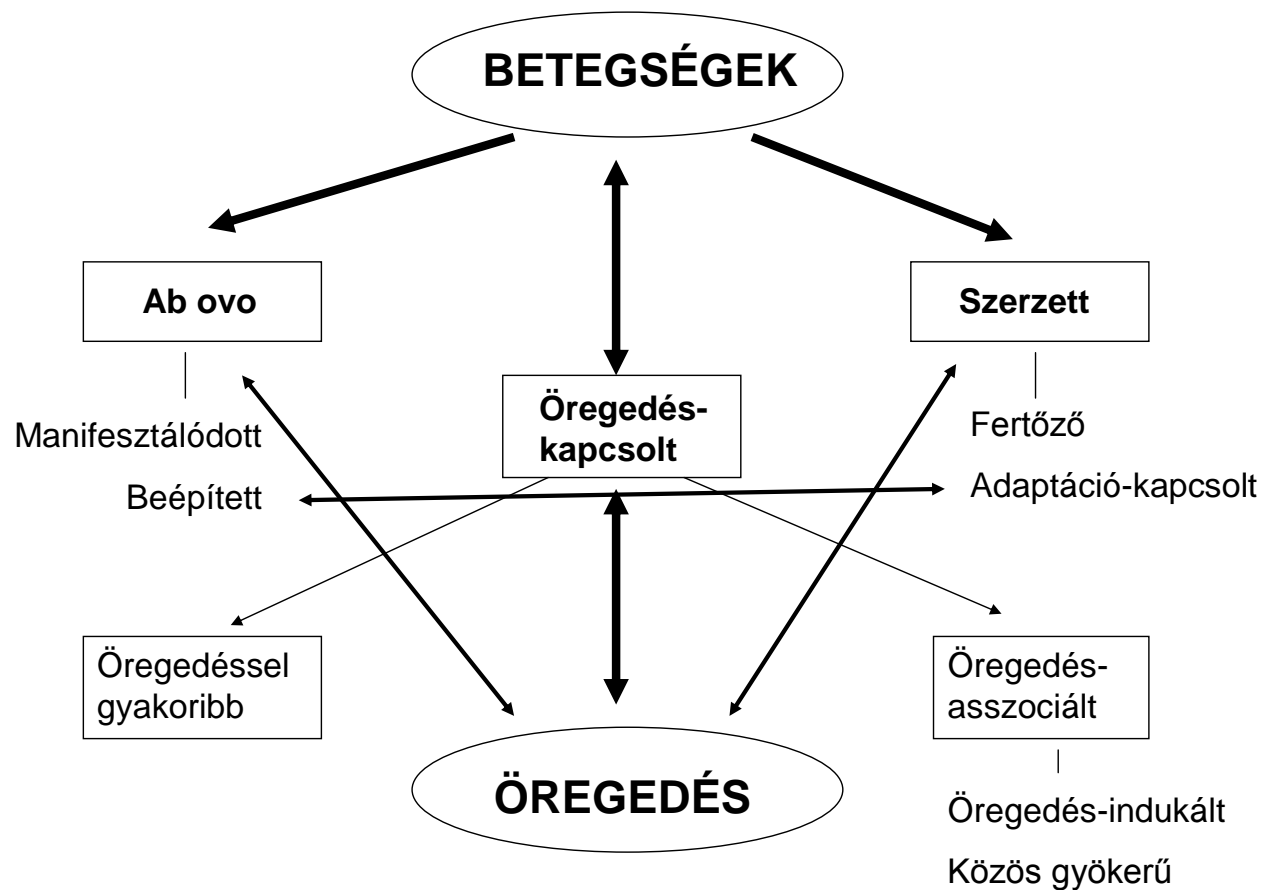
## Is Aging Physiological or Pathological?

Horton A. Johnson

*Departments of Pathology, St. Luke's-Roosevelt Hospital Center; and College of Physicians and Surgeons, Columbia University, New York, New York 10019*

Aging, being a universal phenomenon, is regarded as a "normal" or physiological process distinct from

# Az öregedés és a betegségek kapcsolata



# ÖREGEDÉS ÉS BETEGSÉGEK: két „jó barát”

## Malignus elváltozások

*Journal of Gerontology: BIOLOGICAL SCIENCES*  
Special Issue 1989, Vol. 44, No. 6, 25–34

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### Development, Cancer and Aging: Possible Common Mechanisms of Action and Regulation

Richard G. Cutler<sup>1</sup> and Imre Semsei<sup>2</sup>

<sup>1</sup>Gerontology Research Center, National Institute on Aging.

<sup>2</sup>University Medical School, Debrecen, Hungary.

*The incidence of most types of cancer intensifies throughout an animal's life span. This correlation of cancer incidence with age raises the question of a possible causative link. Over the past few years there has been a rapid increase in our knowledge of genetic mechanisms of cancer initiation and propagation. In view of these advances, a reevaluation of the links between aging and cancer appears appropriate. This article attempts such a reevaluation and concludes that there is indeed much evidence indicating common causes of cancer and aging. This conclusion is*

# ÖREGEDÉS ÉS BETEGSÉGEK: két „jó barát”

## Autoimmun betegségek

**Gerontology**

**Debate**

Gerontology 2002;48:179–184

Received: May 29, 2001  
Accepted: July 5, 2001

### **On the Role of Aging in the Etiology of Autoimmunity**

László Urbán Beáta Bessenyei Marietta Márka Imre Semsei

Molecular Biology Research Laboratory, 3rd Department of Medicine, Medical and Health Science Center,  
University of Debrecen, Hungary

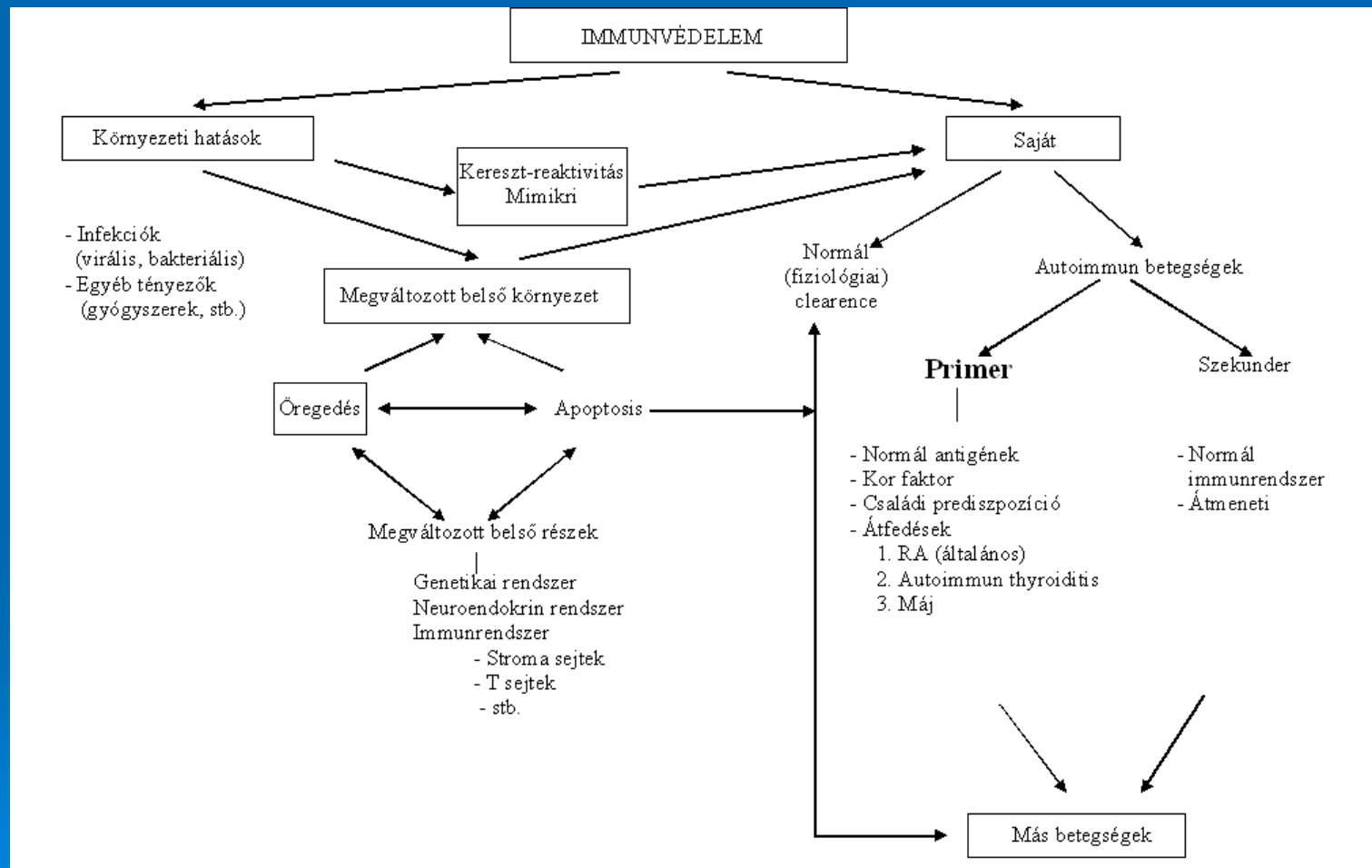
#### **Key Words**

Aging process · Autoimmunity · La autoantigen ·  
Apoptosis · Genetic instability

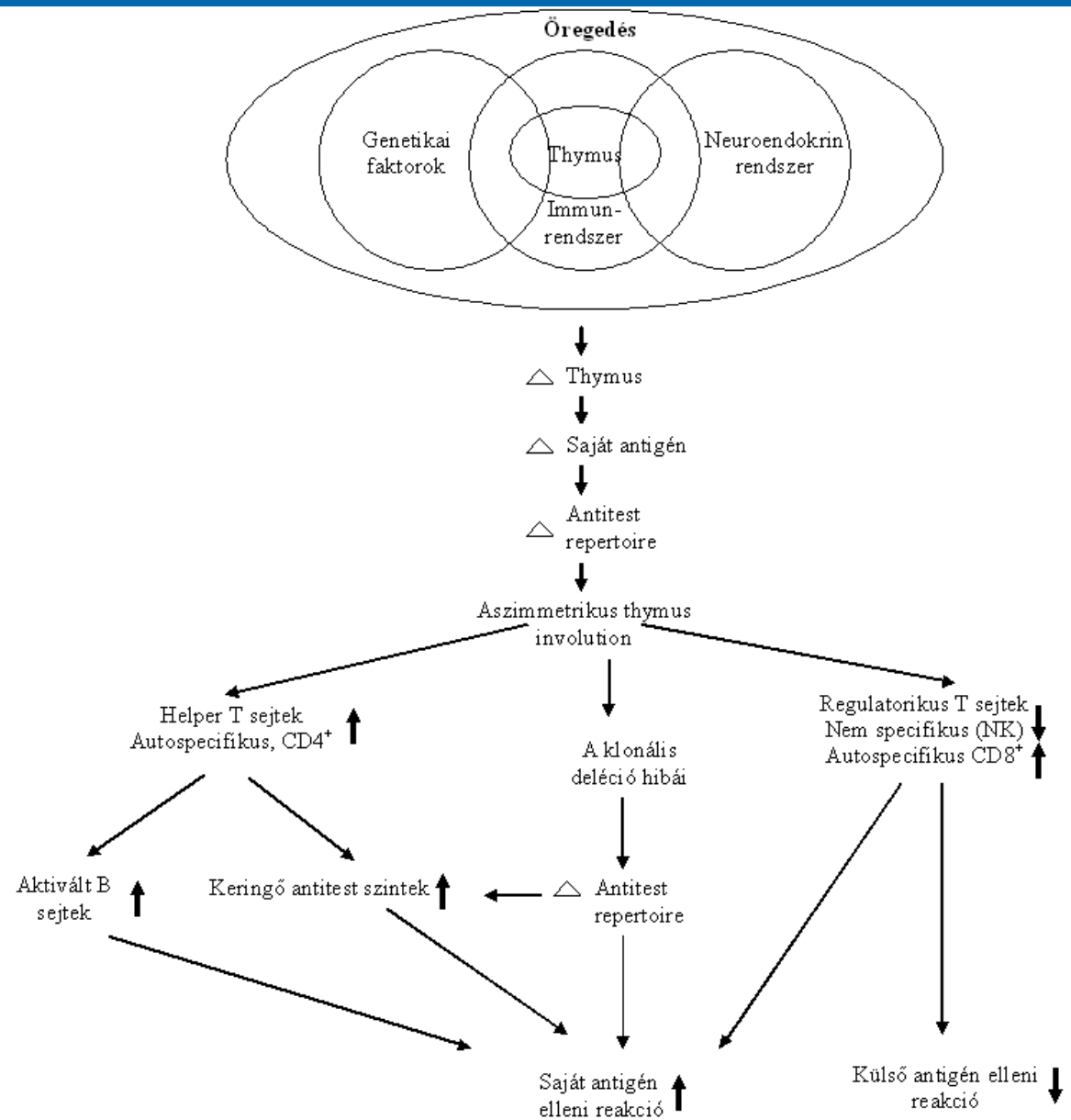
#### **Introduction**

Certain types of diseases may be associated with old

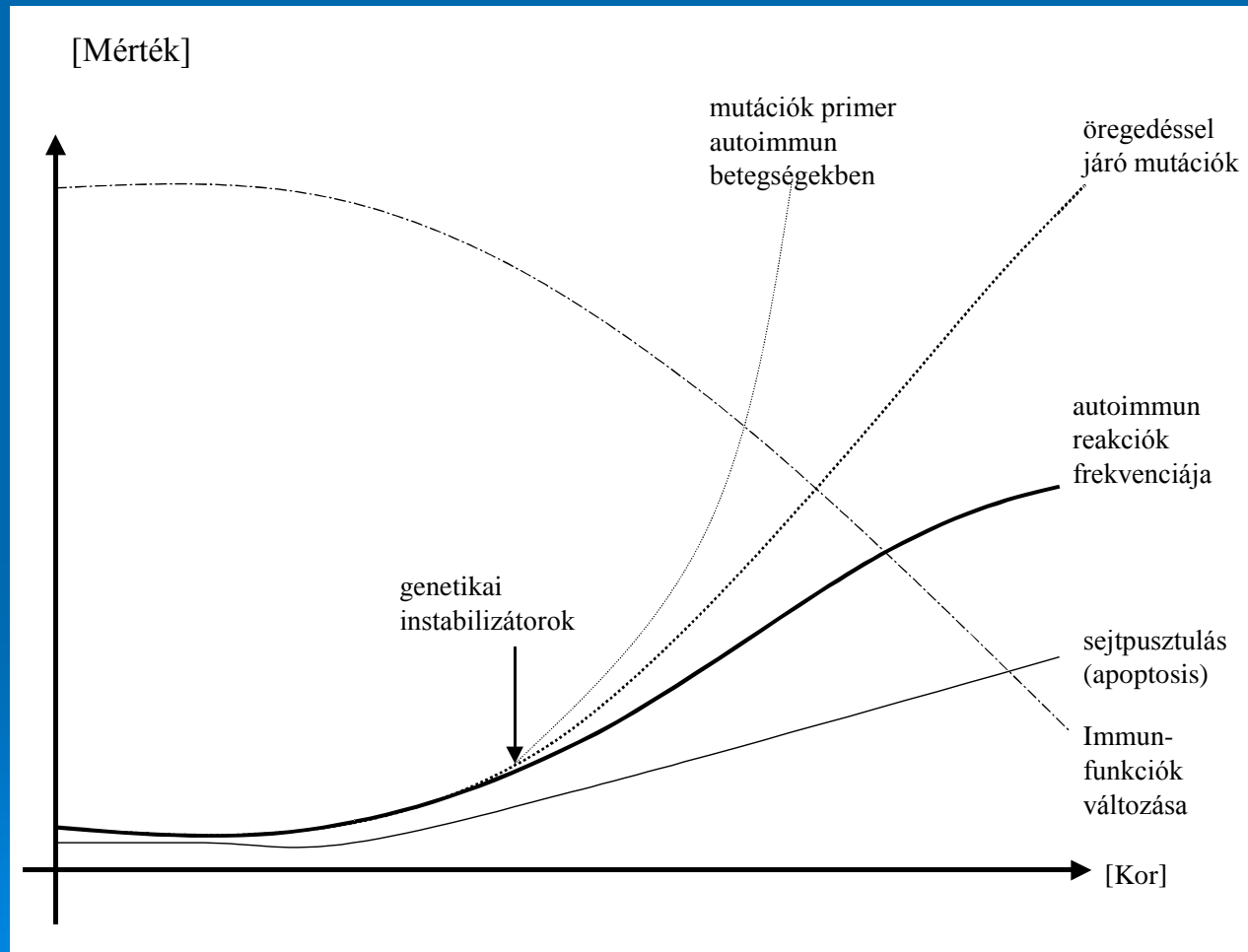
# Az öregedés hatása az immunrendszerre



# Az öregedés hatása az immun- rendszerre

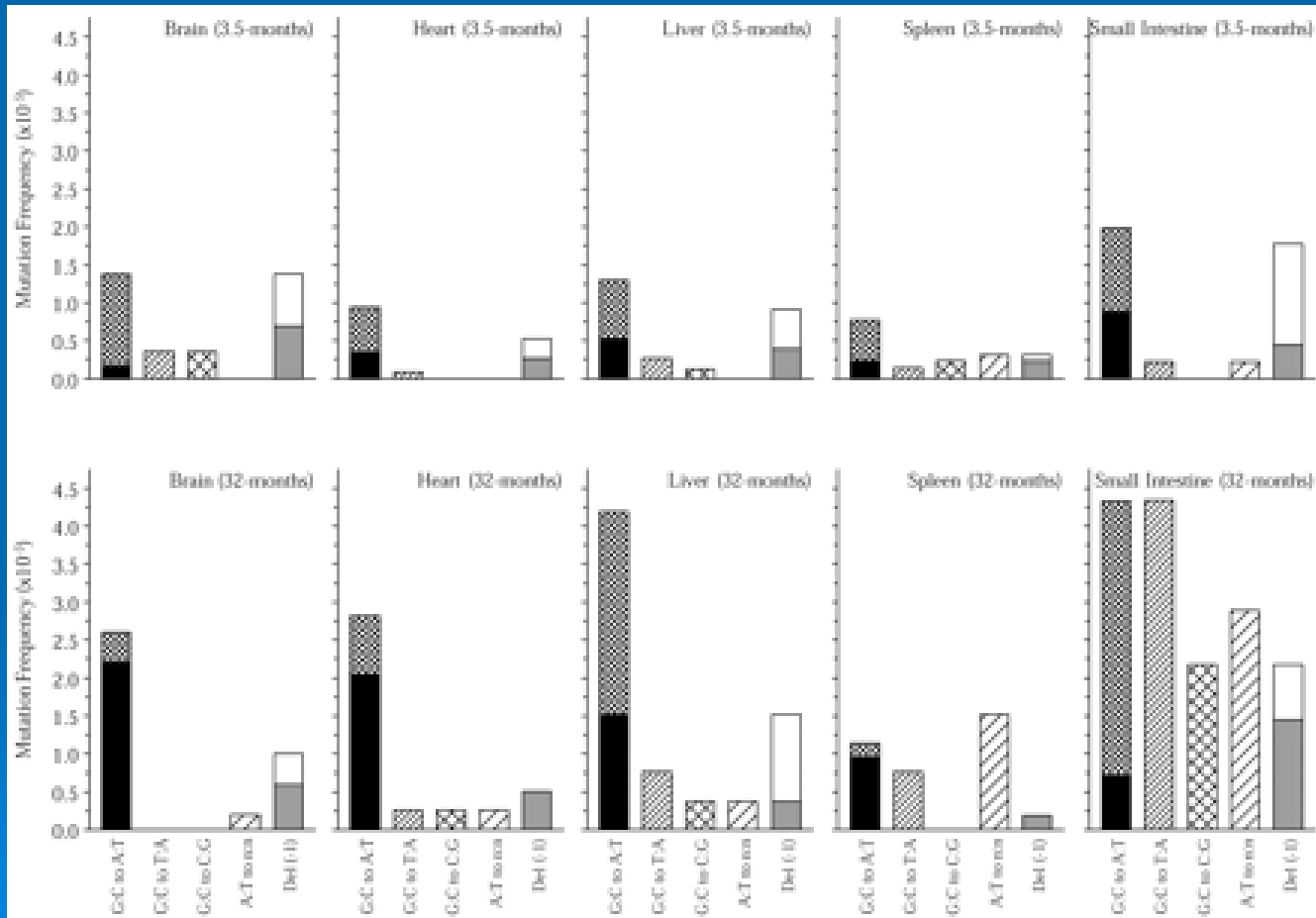


# Közös gyökerek





# Közös gyökerek



# Közös gyökerek

