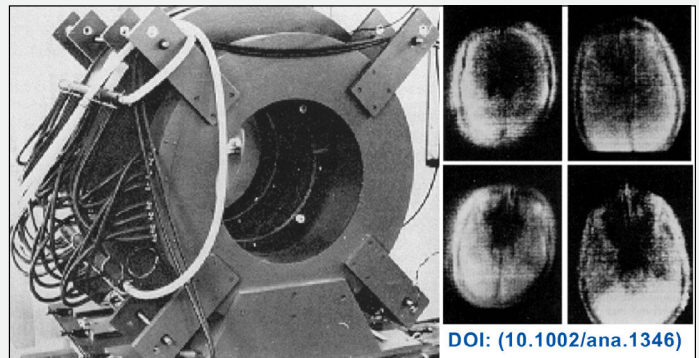


1980s

1980

BIOMEDICAL MILESTONES

- Nusslein-Volhard and Vieschus define 20 segmentation genes in flies.
- First Topographic NMR images (MRI) of human brain published.



1981

BIOMEDICAL MILESTONES

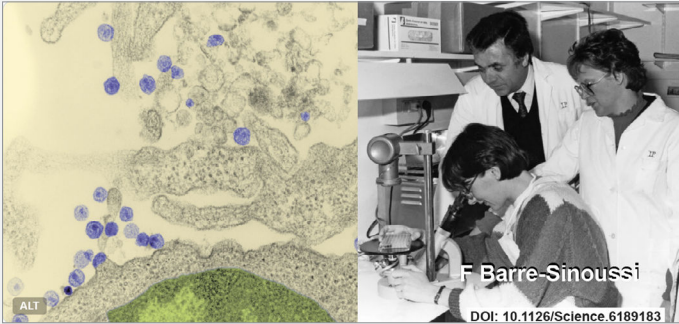
- Sperry, Hubel, Weisel awarded Nobel for information processing in brain/vision.
- First cases of HIV/AIDS described in LA and NY.

HISTORICAL CONTEXT

First launch of US space shuttle Columbia.

1982

BIOMEDICAL MILESTONES

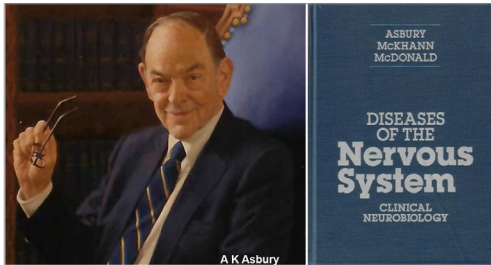


- Barde and Thoenin discover BDNF.
- Innate immune system implicated in Alzheimer's.
- Neurological disorders related to HIV/AIDS identified 1982, retrovirus identified 1983 at Inst. Pasteur and confirmed at NIH-NCI in 1984.

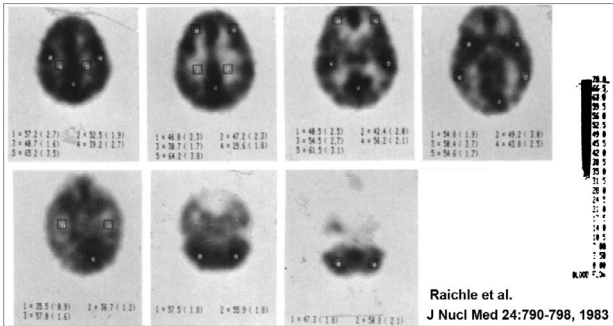
1983

BIOMEDICAL MILESTONES

- ANA President in 1983, and *Annals of Neurology* Editor-in-Chief, A.K. Asbury made seminal contributions to understanding of peripheral neuropathies including Guillain-Barre, diabetic and renal disease associated neuropathies.
- Huntington's disease gene 1st to be mapped by forward genetics (Gusella et al.)



- Marcus Raichle shows how to measure regional cerebral blood flow with oxygen-15-labeled water (H₂¹⁵O) as a tracer.

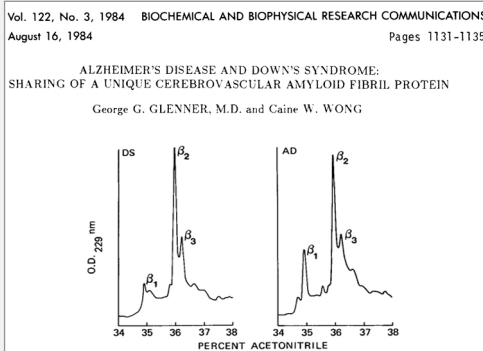


HISTORICAL CONTEXT

Reagan-Thatcher era 'neoliberal' socioeconomic policies take form.

1984

BIOMEDICAL MILESTONES

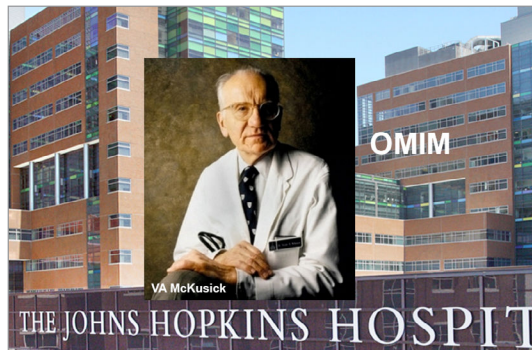


- A β peptide isolated from human brains; Glenner and Wong comparison of extracts from Down's and Alzheimer's brains initiate the Amyloid Hypothesis of neurodegeneration. Later articulated by Hardy and Selkoe.
- U.S. federally funded Alzheimer's Disease Research Centers (ADRCs) open.

1985

BIOMEDICAL MILESTONES

The MIM becomes available online as OMIM (Online Mendelian Inheritance in Man), adapted for the WWW in 1995 by the National Center for Biotechnology Information (NCBI) and biocurated at Johns Hopkins.



HISTORICAL CONTEXT

Live Aid concert in UK and US raises famine relief funds for Ethiopia.

1986

BIOMEDICAL MILESTONES

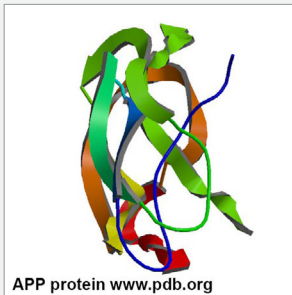
Cohen and Levi-Montalcini receive Nobel for ID and isolation of neurotrophic factor NGF and epidermal growth factor EGF.

HISTORICAL CONTEXT

Chernobyl nuclear power plant fails in Ukraine, USSR.

1987

BIOMEDICAL MILESTONES



Amyloid precursor protein (APP) transcript on Chromosome 21 cloned and sequenced by Kang, Tanzi, and Goldgaber labs, Amyloid beta (A β)42 and 40 fragments identified.

1988

BIOMEDICAL MILESTONES

ANA President in 1988, R.J. Joynt was a neurophysiologist, educator, and “pillar of modern neurology”. Leader of the Univ. of Rochester School of Med., Editor-in-Chief of *Archives Neurol*, (now *JAMA Neurol*).



HISTORICAL CONTEXT

US-Russia Intermediate range nuclear forces (INF) treaty signed.

1989

HISTORICAL CONTEXT

Berlin Wall comes down, initiating German reunification.

