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GLIA BIBLIOGRAPHY 1960-1964

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compiled by

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PREFACE

Glia Bibliographies

Bibliographies of the world literature on glia are rare. We know of five, three of which are in books published by Charles C Thomas of Springfield, Illinois:

Glees, P. (1955) Neuroglia, Morphology and Function
Windle, William F., Ed. (1958) Biology of Neuroglia
Nakai, Junnosuke, Ed. (1963) Morphology of Neuroglia

A fourth has been published in the November-December 1964 (Vol. II, No. 6) issue of the Neurosciences Research Program Bulletin, as part of a report of NRP Work Session on glia cells chaired by NRP Associate Robert Galambos. That bibliography, a selective one, was generated by the participants in the Work Session, and represents their opinions of the key publication in their fields of glia research.

The fifth is now before you; more inclusive than the fourth, more recent than the first three. The modest product of a part-time project, it is being published in keeping with the NRP policy of attempting to share both new information and new patterns of old information.

Scope and Features in Brief

This bibliography lists about 1100 references to the world literature on, or relevant to, glia cells.

It covers the period from January 1960 to August 1964, with some entries beyond those limits, as explained later.

All titles are given in the English language. Non-English language titles are also given in the original language.

In most cases, the reader is referred to the location in the Zentralblatt für die Gesamte Neurologie und Psychiatrie (abbreviated "Z") where he can find a German-language abstract of the original publication.

It has not been possible to otherwise annotate the entries in this bibliography.

Origination

The NRP Glia Bibliography 1960-1964 began as a checklist for certain NRP Associates and Residents, as a tool in their empirical and theoretical investigations of the roles of glia.

It grew from suggestions made by three NRP Associates, Drs. Robert Galambos, Holger Hydén, and Robert B. Livingston, who also contributed advice, information, and access to their personal literature files. Their assistance is gratefully acknowledged.

The above-mentioned Zentralblatt was considered to be the best single secondary source for pertinent literature. Using it and such other sources as Index Medicus, Miss Joan Morris, then NRP librarian, began compiling a list, later continued by Miss Margaret S. Little, of those references entered under obviously glia-related headings.

In the course of the compilation, it became clear that medical indexing had not been able to reflect all of the many approaches toward fundamental understanding of glial development, structure, function, and pathology; there was, for example, no such sub-heading as "ultrastructure."

In addition, some of the most interesting work appeared under headings not obviously related to glia.

Accordingly, a more intensive technique of searching was adopted: a line-by-line scan was made of every page of the major classifications of the Zentralblatt, with the eye searching for key terms (listed below); any abstract that contained any key terms was then read to see whether it was indeed relevant. In many cases where doubt remained, it was possible to consult the original paper itself.

Key Terms

Miss Little's development of a working list of key terms was aided by guidance from Drs. Galambos, Hydén, and Livingston, who also gave her guidelines for selecting the more fundamental of the almost 2000 references turned up; however, the final selection was hers. Miss Little benefitted too from attendance at the NRP Work Session on glial cells, as well as from subsequent cooperation on the part of its participants. NRP Staff members also made suggestions and contributions at all stages, based on their continual reading of the neuroscientific literature.

Table 1 categorizes most of the key terms used by Miss Little as clues to possible relevance.

Coverage

The issues of the Zentralblatt searched for this bibliography were all those from January 1960 (Vol. 153, No. 3) through August 1964 (Vol. 176, No. 3).

As to these two dates: January 1960 was set because it seemed to approximate the median point in time that split in twain the exponentially growing series of publications about glia literature. August 1964 was set in order to ensure production of the bibliography as a supplement to the issue of the Neurosciences Research Program Bulletin that featured the report of the NRP Work Session on glia cells.

Table 1. Categorized list of English equivalents of most key terms used in scanning abstracts and indexes.

Cells (Glial)

Alzheimer
 ameboid glia
 astroblast
 astrocyte
 astroglia
 astroid
 Bergmann
 bloated
 breviradiate
 Cajal
 caudate
 cometal
 compound granular
 cytoplasmic glia
 Deiter
 ependymal
 ependymoblast
 ependymocyte
 Fañana
 fatty granule
 fibrillary glia
 fibrous glia
 gitter
 glia
 gliocyte
 glioblast
 gliocyte
 granule
 histiocyte
 Hortega
 interfascicular oligodendrocyte
 longiradiate
 macroglia
 macrophage
 mesoglia
 microglia
 microgliocyte
 microglioblast
 monster
 mossy
 neuroepithelial
 neuroglia
 oligodendrocyte

oligodendroglia
 pediculated
 pericellular
 perineuronal satellite
 perivascular satellite
 phagocyte
 protoplasmic astrocyte
 protoplasmic glia
 rod
 satellite
 scavenger
 Schwann
 spider
 spongioblast
 stellate
 subcapsular
 tancyte

Cells (Nerve), Environment of

amacrine
 association
 basket
 Betz
 bipolar
 ganglion
 germinal
 Golgi
 granule
 horizontal
 internuncial
 interstitial
 mitral
 motor
 multipolar
 neuroblast
 olfactory
 pseudounipolar
 Purkinje
 pyramidal
 spindle
 tract
 tufted
 unipolar

Organelles & Spaces

axon
axonal membrane
dendrite
end-foot
end-plate
glial processes
gliosome
intercellular space
myelin
myelination
nerve ending
neurilemma
pericapillary space
perineuronal space
perivascular feet
perivascular space
terminal bouton
subpial foot
synapse
synaptic space
vascular end-feet
Virchow-Robin space

Brain

blood-brain barrier
glial index
impedance
interstitial tissue
neurogenesis
pia-glia membrane
supporting structure

Behavior

cognition
conditioning
learning
memory
perception
psychophysiology
recall

Pathology

allergic encephalomyelitis
astroblastoma
astrocytoma
astroma
demyelination
ependyoblastoma
ependymoma
glioblastoma
glioma
gliosis
multiple sclerosis
neurilemmoma
neurinoma
oligodendroblastoma
oligodendrocytoma
oligodendrocytosis
oligodendroglioma
phenylketonuria
PKU
schwannoglioma
schwannoma
spongioblastoma

Disciplines

biochemistry
biophysics
cytochemistry
cytology
cytophysiology
electron microscopy
embryology
enzymology
histochemistry
histological techniques
histology
light microscopy
microbiology
microchemistry
microscopy
morphology
staining stains
tissue culture
tissue metabolism
ultrastructure

Nevertheless, this bibliography contains some items that were published before January 1960. They have been included because references to them in indexes and abstract journals did not appear until the stated period.

Likewise, some items that appeared in the literature after the August 1964 cut-off date have been listed, production schedules having permitted their inclusion.

Production

The bibliography has been photo-reproduced by the M. I. T. Graphic Arts Service from file-card copy typewritten by, or under the supervision of, the indefatigable Miss Little, who also made the translations and transliterations. She joins the undersigned in hoping that this bibliography will be found at the very least to be a reliable list of recent literature that is demonstrably or potentially helpful in furthering scientific comprehension of the roles of the glia.

-- T.M. & G.A.

* * *

A

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"Intraneuronal Lipid Deposits in Metachromatic Leukodys-
trophy. Histochemical and Topographic Observations."

[Air Force Inst. of Path., Washington, D.C.]

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