

Graphs relating to structure of membranes referenced as 'Prof Wilkins'

Contributors

Arnott, Struther, b.1934

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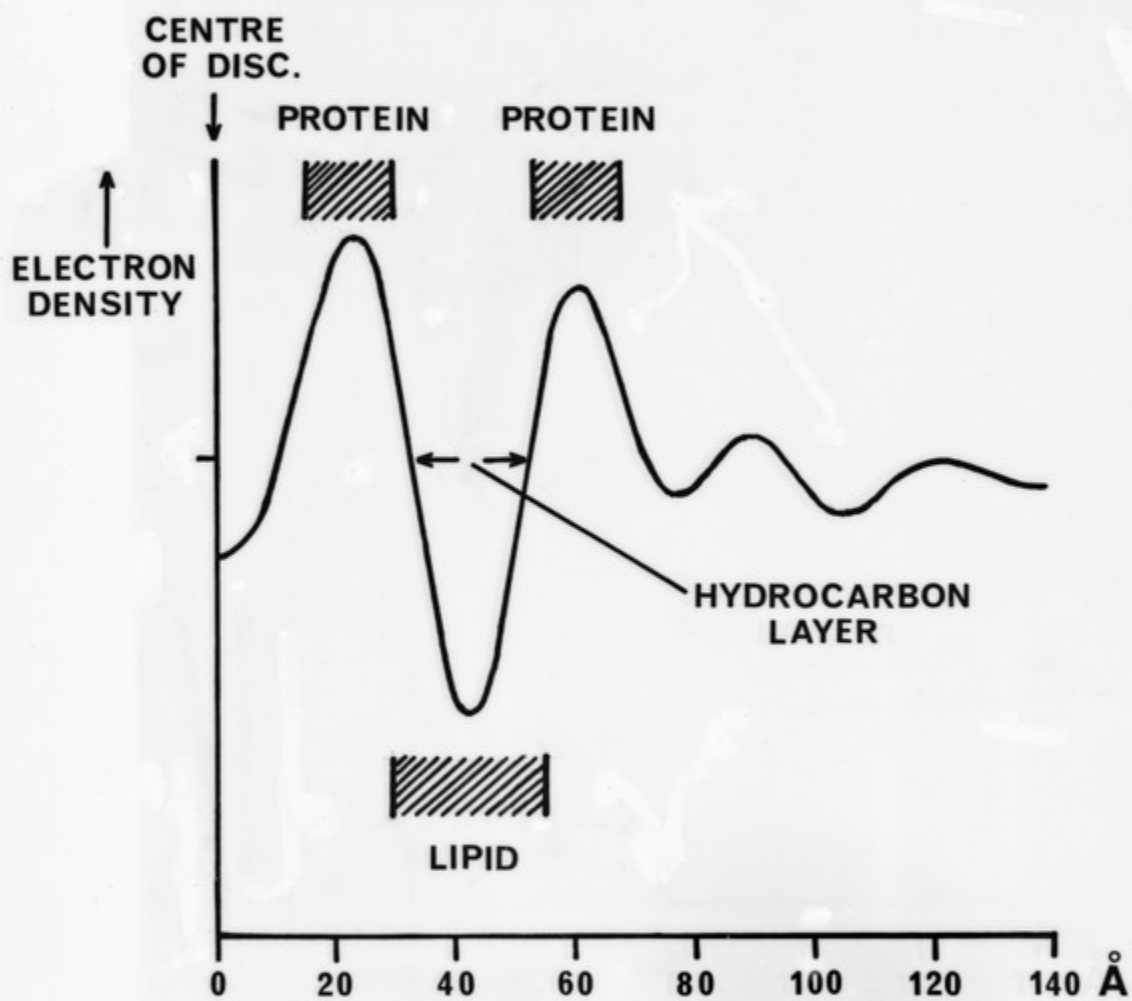
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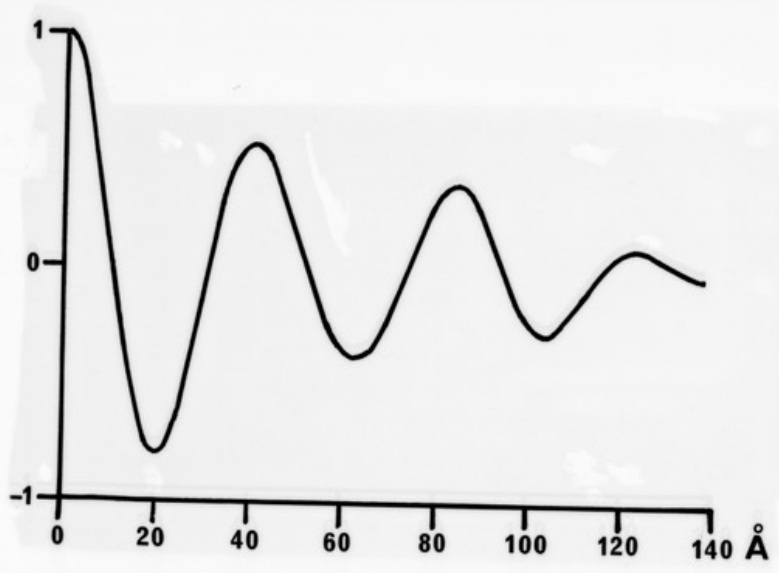
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WILKINS-BLAUROCK



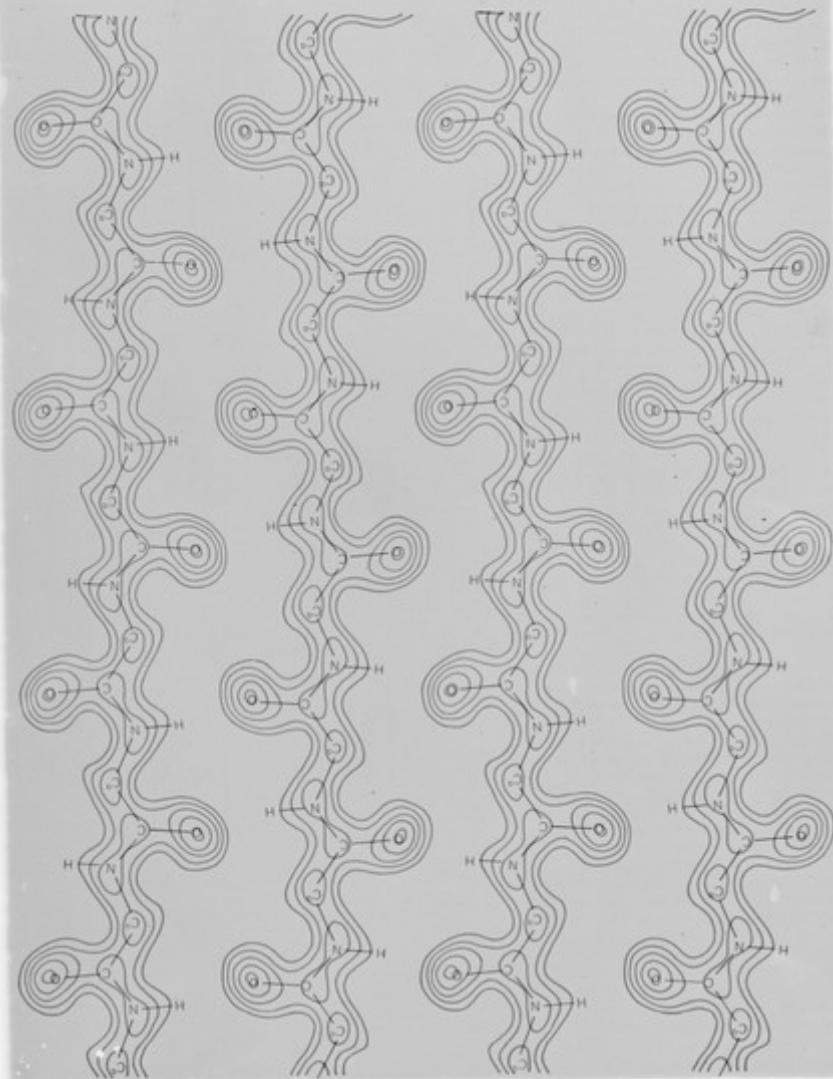
WILKINS - BLAUROCK

The Leeds investigators have published by us a picture yielded by our laboratory the infrared word the infrared pattern and the infrared picture of the extended word used to obtain an electron microscope. E. H. Moore and

group found that the alpha generally characteristic of keratins in the normal state other fibrous proteins, such as (musk). On looking into the birds and reptiles, however, feathers, the keratins exhibit patterns in their natural state that resembles the of stretched wool. A group of the three classes of higher made by K. M. Hough of group has shown that birds can produce both the alpha type of keratin but that adhere only the alpha type.

part four decades much of the investigation of the structure of the centered on studies of the geometry of the alpha keratin forward when the standard and Langer-Michael and that keratin fibers are and that keratin fibers are of molecular chains cross-dimensionally by double (Keratin, page 10). They to render the keratin of wool soluble by heating the fibers with reducing agents (addition of sodium borohydride) and has co-workers at the laboratories in England found keratin cross-links could also be oxidized. One of the study keratins molecules in was learned that the keratin could be separated into two one relatively rich in sulfur and poor in sulfur. The keratin proved to consist of fibrous capable of reorganization also keratin molecules.

ELECTRON-DENSITY "MAP" (color) was recently obtained from the beta-X-ray pattern of stretched wool in the author's laboratory at the Commonwealth Scientific and Industrial Research Organization (CSIRO) in Australia. The characteristic keratin molecules at acid units was foreseen by Astbury and Woods almost 10 years ago.



Individual atoms are clearly resolved. The general arrangement of atoms in polypeptide chains formed by the linking of amino acid units was foreseen by Astbury and Woods almost 10 years ago.

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