

REPORT from Dr. Gruner - January 12, 1933.

1. Purpose of Research: An investigation into the nature of certain inclusion bodies found in the bloodcells in human cancer (as distinct from other diseases) and into their relation to the cancerous process.
2. Methods: The subject is studied by the methods of haematology, special cytology (nuclear structure, chromosomes, mitochondria) and technique current for protozoology - applied to -
 - (1) blood from hospital cases,
 - (2) tumour tissue immediately on removal from the body.

Work on the first of these two lines is nearly completed, and some conclusions can be drawn, which may help either diagnosis or prognosis.

In regard to the second line of work, tissue cultures are being instituted with a view to studying the action of leucocytes from both healthy persons and from cases of cancer, and the action of other living cells, including special types of organisms.

It is thought that some types of organism may be either favourable to, or inimical to the tumour tissue.

Besides this, attempts are made to obtain successful grafts of human tumour upon laboratory animals (hitherto not accomplished elsewhere).

Implantation into invertebrates is being tested. This is a line of work, apparently, not attempted elsewhere. It is a question as to whether anything out of the tumorous cells can survive outside the human body.