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Questions

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BIOLOGY

Regenerating Nerve Cell's Protein Fluctuates

> STUDIES of regenerating nerve cells, tracing the ups and downs of the cell's use of protein, are reported by a team of Swedish researchers.

First, the scientists report in Nature (Sept. 20), there is a "latent period" when a small part of the nerve close to the spot where the cells were crushed degenerates. The amount of protein in each cell dropped by 30% to 40% at this stage.

At the same time, the incorporation of lysine, one of the most biologically important amino acids, into regenerating cells exceeded the control cells' uptake by 70%.

During the "outgrowth period," when

the regenerating nerve cells were rapidly growing, there was a 100% increase in the proteins per cell. The incorporation of lysine into the cells was found to increase

by 200%.

Changes in the protein used by the reit-protein acid (RNA) generating cells' ribonucleic acid (RNA) followed a different pattern. When chromatolysis—the solution and breaking up of chromatin, the protein compounds believed to be the physical basic of heredity-occurred, protein incorporation increased by 100%. This took place on the eighth day after the cells were crushed.

The researchers used carbon-14 as tracer material to follow the regenerating cells' use of the lysine and orotic acid. acid, a protein isolated from milk, was studied in the transformation of RNA from a less active to a more active form.

S.-O. Brattgard, H. Hyden and J. Sjostrand of the University of Goteborg's department of histology reported the research.

Science News Letter, October 4, 1958

Do You Know?

The nervous system plays an important role in maintaining the body's blood pressure, not only through its influence on the pumping heart, but through its part in causing blood vessel walls to contract or expand.

Lipizzaners, Austria's famous white performing horses, are born dark; they acquire their white coats between three and seven years old.