

## THE FORMATION OF MYELIN IN THE PERIPHERAL NERVES OF VERTEBRATES

By BETTY GEREN UZMAN, M.D.

(From the Children's Cancer Research Foundation, Inc., Boston)

Studies with the electron microscope of transverse sections through the sciatic nerves of chick embryos (13–18 days of incubation) and of young mice (7–8 days of age) were presented. The author's interpretation of the evidence concerns the role of the Schwann cell in myelin formation and supports the view previously suggested that the lamellar structure of the myelin sheath in peripheral nerve fibers is formed by an infolding and spiral wrapping of the Schwann cell surface. The experimental evidence is considered in detail in the publications listed (1–3).

### BIBLIOGRAPHY

1. Geren, B. B., and Raskind, J., Development of the fine structure of the myelin sheath in sciatic nerves of chick embryos, *Proc. Nat. Acad. Sc.*, 1953, **39**, 880.
2. Geren, B. B., The formation from the Schwann cell surface of myelin in the peripheral nerves of chick embryos, *Exp. Cell Research*, 1954, **7**, 558.
3. Geren, B. B., Structural studies of the formation of the myelin sheath in peripheral nerve fibers, Presented at the 1955 Symposium sponsored by the Growth Society at Amherst College, in *Cellular Mechanisms in Differentiation and Growth*, Princeton University Press, 1956, chapter 10.