io reflex action. If in the frog the sciatic nerve be cut or the corresponding posterior roots severed, by which in the one case the out-going in the other the in-coming nerve impulses are cut off, the limb affected tends to become limp and hangs lower than the other, illustrating loss of tonus. The same loss of tone can be seen in the human face in consequence of weariness or of depressing emotions. We can truly become "down in the mouth," and many a man after a day of fatigue and worry looks years older because of the consequent diminution in the mus-

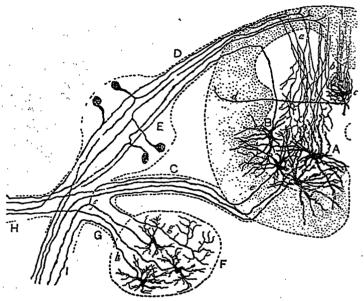


Fig. II. Transverse Section through Half-spinal Cord showing the Ganglia by Golgi's Method. (Halliburton after Ramon y Cajal.)

A, Anterior cornual cells, B, axis-cylinder process of one of these going to posterior root; C, anterior (motor) root; D, posterior (sensory) root; E, spinal ganglion on posterior root; F, sympathetic ganglion; G, ramus communicans; H, posterior branch of spinal nerve; I, anterior branch of spinal nerve; a, long collaterals from posterior root fibres reaching to anterior horn; b, short collaterals passing to Clarke's column; c, cell in Clarke's column sending an axis cylinder process; d, to the direct cerebellar tract; e, fibres of the anterior root; f, axis-cylinder from sympathetic ganglion cell dividing into two branches, one to the periphery, the other toward the cord; g, fibre of the anterior root termining by an arborization in the sympathetic ganglion; h, sympathetic fibre passing to periphery.

cular tone, and this is characteristic of age, for the best, fullest life of muscle is of short duration. The swelling importance of the middleman that comes with ripening years, is not to be regarded as a sign of physiological well-being, though it may be associated with worldly prosperity. It cannot be explained alone by a plentiful supply of sustenance and a plentiful lack of exercise leading to accumulation of