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ORIGINAL COMMUNICATIONS.

ART. XVII—A Lecture on the Diastaltic Spinal System. By MARSHALL HALL, M.D., F.R.S.L. and E., Foreign Associate of the "Académie de Médecine" of Paris; &c. &c.

(Concluded.)

Exp. 2. I now remove the head and all the viscera, and with these the ganglionic nervous system. The phenomena remain unchanged.

There is therefore in this decapitated and eviscerated frog, absolutely nothing but the spinal system—the diastaltic spinal system—with its own peculiar and exclusively excito-motor phenomena. This is demonstration.

Exp. 3. But I proceed further. Having isolated the spinal system materially, I wish now to show you the dissection and the demonstration of the diastaltic nervous arcs, of which it is essentially composed. Taking one of these, the phenomena of which has been elicited, I observe, or rather repeat, that the origin, or commencement of such arc is in the integument; its in-going, or cisodic course is in the femoral and lumnary nerves; its central point in the spinal marrow; its out-going, or notice course again in the lumbar and femoral nerves, and its termination in the muscles.

From this lower part of a lower extremity, I strip the skin, removing with it the origin of the cisodic nerve. I now, as you observe, irritate her toe of that limb in vain. There is no movement.

On this other side I divide the lumbar, (or it might be the femoral,) erve. The same result is observed. There is the absence of all excitator phenomena.

Still the anterior extremities preserve their reflex or diastaltic actions. here are annihilated, as you see, by destroying the upper portion of the inal marrow. In this manner the existence and course of the diastaltic anal arc, the nervous or anatomical agent in each reflex or diastaltic tion is demonstrated, and for the first time.

Exp. 4. I now, in another decapitated frog, irritate the upper portion