

THE  
CANADIAN RECORD  
OF SCIENCE.

---

---

VOL. II.

JULY, 1886.

NO. 3.

---

---

STUDIES IN THE COMPARATIVE PHYSIOLOGY OF THE  
HEART.

BY T. WESLEY MILLS.

(Concluded.)

ON THE PHYSIOLOGY OF THE HEART OF THE ALLIGATOR.

The animals experimented upon belonged to the species *Alligator Mississippiensis*. The heart in the *Crocodylia*, with its two auricles and paired ventricles, though showing much resemblance to lower forms and retaining the pulsatile sinus venosus, both in its general appearance and in its action, approximates sufficiently to that of the higher vertebrates to suggest on superficial examination the heart of a mammal or bird (with slower action). The blood, too, is more highly oxidized than in the Chelonians, so that altogether the circulatory system shows physiological as well as anatomical advance. With the exception of Gaskell's short paper on the crocodile, (*Journal of Physiology*, Vol. V., No. I), nothing has