

existence of this column not only implies an internal skeleton, but that particular frame-work of ribs, which is suited to move in breathing. But the ribs do not move of themselves, they must have appropriate muscles. These muscles must have their appropriate nerves: and for supplying these nerves there must be a spinal marrow. The spinal canal is as necessary to the spinal marrow as the skull is to the brain. So that we come round to understand the necessity of a vertebra* to the formation of the spinal marrow; and the reader may comprehend how much enters into the conception of the anatomist or naturalist, when the term is used, a vertebrated animal, viz:—an internal skeleton, a particular arrangement of respiratory organs, and a conformity in the nervous system.

It is to this superior division that I shall limit myself, in making a review of the bones of the upper extremity.

Were I to indulge in the admiration naturally arising out of this subject, and point out the strength and the freedom of motion in the upper extremity at the ball and socket joint of the shoulder,—the firmness of the articulation of the elbow, and yet how admirably it is suited to the co-operation of the hands,—the fineness of the

* *Vertebra* is the name given to the individual bones of the spine, or back-bone. See the explanation, in the Classification at the end of the volume, of Vertebral Animals.