

more shallow, its anterior boundary, formed by the inferior root of the zygoma, being scarcely developed, allowing greater freedom for the antero-posterior movement of the articulation of the mandible.

In comparing the skull of the male gorilla with that of man, — a male negro, for example, — we shall find the jugal arch of the former to be built upon a vastly stronger plan, both the squamosal and the malar presenting different forms and proportions. The squamosal is as long and vertically as wide as the malar portion of the arch, while its upper border rises into an angular form, constituting a very marked convexity, no trace of which is to be seen in the negro. In the latter the jugal portion of the arch decreases in depth after leaving the body of the bone, whereas in the gorilla it continues of the same depth and is also longer.

In the orang, the horizontal curvature of the arch is greatly produced, and strongly developed at the portion corresponding to the malar-squamosal suture. Its inferior border is flattened and thickened. The vertical curvature, however, is not so great, while the channel for the temporal muscle is relatively wider than it is in the gorilla. The crests and ridges of the cranium, especially in the male, express the great energy of this muscle, although the general outline of the arch is far less massive than in the latter ape.

The jugal arch of the chimpanzee's cranium presents much resemblance to that of man, being narrow, and with slight curvature either horizontal or vertical. The malar is anteriorly flatter,

and its orbital process is longer and narrower at its base. The extent of surface for the development of the temporal muscle is greater than in man, and the width of the channel relatively increased.

The slight modifications observed in the jugal arch of the gibbons (*Hylobates*) exhibit a distinct tendency to those shown in the lower type of the *Simiana*, the monkeys. In these last, the old-world monkeys (*Catarrhinae*), the arch takes on a sigmoidal curvature, thus presenting upon its superior border a slight convexity behind and a corresponding concavity anteriorly. The extent of this curvature varies in different groups. In the new-world monkey (*Platarrhinae*) the post glenoid process of the squamosal is largely increased, while the remarkable extent of the ascending portion of the ramus, both vertical and antero-posterior, has reference to the great development of the vocal organs in the howling monkeys (*Myctes*) rather than to any unusual energy of the masticatory muscles.

In the *Lemuroidea*, the family of the common lemurs (*Lemurinae*) have an arch which in most cases is nearly straight, narrow, long, and distinguished by a malar-squamosal suture which is almost horizontal in direction, the amount of the overlapping of the jugal by the lengthened process of the squamosal being exceptional, while in some cases the jugal is partially underlapped by a process from the maxillary.

In studying the significance of the jugal arch as presented in the primates, although the modifications exhibited in some groups

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- CARHART, H. A. Primary Batteries. Boston, Allyn and Bacon. 193 p. 12°. \$1.50.
- DRAYTON, H. S. Vacation Time, with Hints on Summer Living. New York, Fowler & Wells Co. 84 p. 12°. 25 cents.
- GUYAU, J. M. Education and Heredity. (Contemporary Science Series.) New York, Scribner's. 306 p. 12°. \$1.25.
- MARILAU, A. K. v. Allgemeine Naturkunde. Lief. 124-129. Pflanzenleben, II. heft. 7-12. Leipzig, Bibliog. Institute. 336 p. 4°. (New York, Westermann.)
- MERCANTILE Journal, the. Vol. I., No. 1. w. Chicago, J. A. Brewer & Co. 8 p. 7°. \$3 a year.
- PILSBRY, H. A. Sea Shells of the Jersey Shore. Asbury Park, N. J., A. P. Novelty Co. 40 p. 16°.
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of the order cannot readily be explained, the principal laws which govern its morphology, and which have been noted in previous papers, are sufficiently evident. These are, that the development of the arch, as shown by the number of bones, by the degree and form of its curvature, by its relation to the orbit and articulation of the mandible, as well as to other neighboring parts, and the amount of surface presented for muscular development, are correlated with the energy of the masticatory power, joined in some of the higher apes with a prehensile strength of jaws and dental series eminently characteristic of their ferocity.

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