## **COMMENTS** by Readers

emy of Sciences, Berlin, began publish- if for no other reason than to create an ing its Nomenclator Animalium Generum awareness of their existence. In a book et Subgenerum, edited during its various published in 1939 by Blakiston. entitled stages by F. E. Schulze, W. Kükenthal, The biology of the cell surface, the late K. Heider, and R. Hesse. The work ap- Ernest E. Just, of Howard University, peared by fascicles and continued well attacked the gene theory on the basis into Volume 5; the last part to come to that "... ectoplasmic behavior deterthe Smithsonian Library was dated mines the cytoplasmic reactions that lie January 27, 1940, and was received May at the basis of nuclear activity in both 12, 1941. This part was labeled "Fün- normal and abnormal mitosis." This book fundzwanzigste Lieferung" and took the contains a large amount of data and much catalogue through page 3692, ending evidence for his theory, and much of what with the genus Zaphleges. This would Just says substantiates and supports the indicate that there was one more forth- Spiegelman-Kamen theory. Many other coming part (Lief. 26), perhaps including similarities exist in Dr. Just's complete addenda, to finish the work through the works. (JAMES H. M. HENDERSON, The rest of the letter Z. The war may have George Washington Carver Foundation, prevented the publication of this final Tuskegee Institute, Alabama.) Lieferung, but I have been unable to ascertain whether or not it ever appeared. Although the Nomenclator Zoologicus of the Zoological Society of London, edited by S. A. Neave, appeared complete in four volumes in 1939-40 and partially supplants the German work, there are certain features of the latter that are very useful to taxonomists and editors of zoological publications in checking the availability of generic names and in running down the literature. Any information which Science readers, at home or abroad, can furnish regarding the availability of the final part of this publication will be appreciated. (PAUL H. OEHSER, editor, U. S. National Museum, Smithsonian Institution, Washington, D, C.)

branches of the biological sciences. bears the museum number B.M. 1919. not the first on the tradition-bound gene tion. It has a mantle length of 31 mm. Chicago.

Beginning in 1926 the Prussian Acad- author whose works I wish to point out

examination of littoral Octopoda from the western Atlantic in the collections of the British Museum, the undersigned discovered an animal that is ap- cotylus, Massy regarded the specimen as parently hermaphroditic. This specimen a female. However, dissection of the was referred to "Polypus occidentalis mantle chamber, in an attempt to deter-(Steenstrup M. S. Hoyle)" by A. L. mine the size of the ovarian eggs, revealed Massy (Zoology, 1916, 2, 141-175) and to the presence of spermatophore glands. "Octopus (Octopus) rugosus Bosc" by There is no penis, but left and right ovi-C. G. Robson (A monograph of the Recent ducts are present on either side of the Cephalopoda. Pt. I: Octopodinae. London: rectum; their connections with the male 1929). Both authors regarded it as a system were not examined. The male female. There can be little doubt that it internal genitalia appear to be otherwise is a small specimen of Octopus vulgaris quite normal, and the remains of two Lamarck, in accordance with the dis- small spermatophores in Needham's covery that neither "occidentalis" nor organ prove that the spermatophore "rugosus" from the western Atlantic glands are functional. The gonad was can be regarded as distinct species (G. E. not examined histologically to determine Biochemical genetics is fast reaching Pickford. Trans. Com. Acad. Arts Sci., whether it contained ovarian as well as its place alongside firmly established 1945, 36, 701-777). The specimen, which testicular tissue. Spiegelman and Kamen (Science, Decem- 12.30.40, was taken between t'de marks appear to indicate that the secondary ber 20, 1946) add much in confirming the on the shore of the Island of South sexual characters of Cephalopoda are not validity of this opinion. Their attack is Trinidad by the "Terra Nova" Expedi- subject to hormonal control. theory. In their article they credit several A summary of its taxonomic characters information regarding the possible occurothers with similar views, especially is included in a report, now being pre- rence of other hermaphroditic specimens. Sewall Wright, of the University of pared, on littoral Octopoda from the (GRACE E. PICKFORD, Osborn Zoological central and western Atlantic in the Laboratory and Bingham Oceanographic They make no mention, however, of an collections of the British Museum. Time Laboratory, Yale University.)

did not permit as thorough an examination as might be desired, although it is hoped that this may be attempted at some later date. In the meantime the following note is offered in view of the special interest of the specimen. The writer is not aware that hermaphroditism has been observed previously in the Cephalopoda although, of course, it is well known among other groups of mollusks. Moreover, in Sepia, according to G. Montalenti and G. Vitagliano (Publ. Staz. Zool. Napoli, 1946, 20, 1-18), the development of the hectocotylus is apparently concomitant with the onset of spermatogenesis. although there is no evidence of hormonal control (H. G. Callan. Publ. Staz. Zool. Napoli, 1939, 18, 15-19).

In the specimen under investigation there is absolutely no evidence of hectocotvlization. All arms, with the exception of the second right, which is perfect, have been damaged at their very extreme tips but had already healed before the time of capture, and in two cases, the right first and fourth, minute regenerates are developing. It is hardly likely that damage to the extreme tip of the third left arm could have completely obscured all evidence of hectocotylization; one would During the course of a routine suppose that the spermatophoral groove would remain, even if the ligula were lost.

Because of the absence of a hecto-

The observations recorded above

The writer would appreciate receiving