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# Studies of living colonies of interstitial encrusting bryozoans from Southeast Brazil

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**ABSTRACT VOLUME**

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**IBA**



## BRAZILIAN BRYOZOA AND ENTOPROCTA IN THE ERNST G.G. MARCUS COLLECTION

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Ernst Gustav Gotthelf Marcus [1893-1968] went into exile in São Paulo, Brazil in 1936, where he took up the chair of Zoology at the Universidade de São Paulo. In 1939, Ernst Marcus and his wife, Eveline du Bois Reymond Marcus [1901-1990], tried to return to Europe, when he applied for a position at the University of Reading but was not successful. Despite the difficulties in Brazil, however, the Marcus' adapted to their new way of life, became Brazilian citizens and were both associated with the University for the rest of their lives. During his stay in Brazil, Ernst Marcus recorded 179 bryozoan species, 51 described as new to science (Vieira et al., 2008). The three volumes of "*Bryozoários marinhos brasileiros*" [Brazilian marine bryozoans] (Marcus, 1937, 1938, 1939) mostly comprise species described from shallow waters of São Paulo state, some collected during the years 1936–1939 by himself and Paulo Sawaya (1903–1995), professor of the Faculdade de Filosofia, Ciências e Letras of Universidade de São Paulo and one of the founders of the Centro de Biologia Marinha of the same university. During the 1930s, E. Marcus also studied several specimens collected by collaborators, some of which were used as type material in his publications (e.g. *Schizoporella carvalhoi* Marcus, 1937, in honor to João Paiva Carvalho, who collected bryozoan specimens in Santos, Brazil). These collaborations allowed the study of the bryozoans from outside of São Paulo state, which provided the first comparison of bryozoan faunas on the Brazilian coast. Between 1936 and 1955, E. Marcus also published some monographs on taxonomy, embryology, histology and development of some marine and freshwater species. These studies included approximately 2/3 of the total number of shallow waters species recorded from the Brazilian coast (see Vieira et al., 2008).

In 1948, the Natural History Museum, London (NHMUK) received some specimens in an exchange between E. Marcus (USP) and Anna B. Hastings (NHMUK). Since the first report of this collection (Spencer Jones & Ramalho, 2007) there have been no additional reports on specimens studied by Marcus. The discovery of more Marcus collections in the Dep. de Zoologia of USP in the beginning of 2000, however, revealed that the majority of specimens studied by him still exist; most of this material are now deposited in the Museu de Zoologia da Universidade de São Paulo, Brazil (MZUSP) and in the NHMUK. We present a history of these collections and an overview of the systematic reassessment of all specimens. At this time specimens of 155 species (of 179) identified by E. Marcus have been found. The number of syntypes identified in the collections is 72 (Entoprocta: 4; Phylactolaemata: 4; Cyclostomata: 5; Ctenostomata: 5; Cheilostomata: 54), about 54% (35 out of 65 species) of the new bryozoan taxa described by E. Marcus from the Brazilian coast.

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