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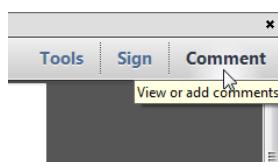
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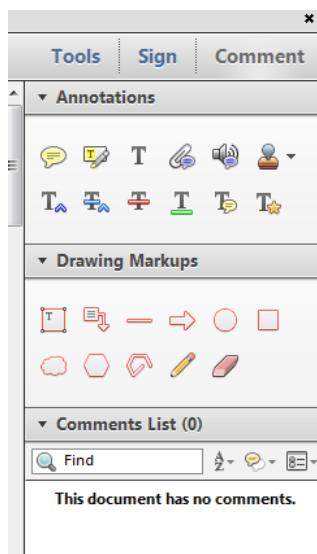
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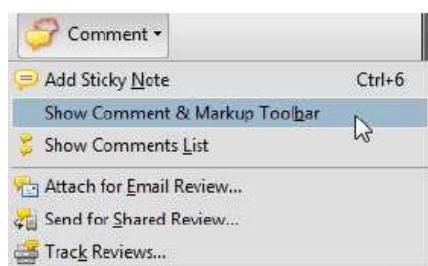


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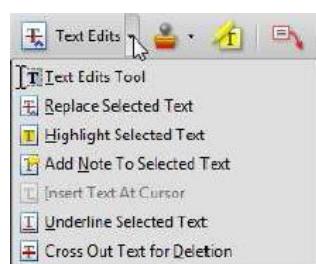
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## Alain Crosnier's role in modern carcinology: exploration, international collaboration, and taxonomy

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Bertrand Richer de Forges<sup>1</sup>, Shane T. Ahyong<sup>2</sup>, Peter Castro<sup>3</sup>, Tin-Yam Chan<sup>4</sup>, Paul F. Clark<sup>5</sup>, Rafael Lemaitre<sup>6</sup>, Enrique Macpherson<sup>7</sup>, Peter K.L. Ng<sup>8</sup>, Gary C.B. Poore<sup>9</sup>, Joseph Poupin<sup>10</sup> and Marcos Tavares<sup>11</sup>

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<sup>1</sup>Institut de Systématique, Évolution, Biodiversité, ISYEB - UMR 7205 – CNRS, MNHN, UPMC, EPHE, Département Systématique et Evolution, Muséum National d'Histoire Naturelle 57 rue Cuvier, CP26, F-75005, Paris, France;

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<sup>2</sup>Australian Museum, 1 William St., Sydney, NSW 2010, Australia, and School of Biological, Earth and Environmental Sciences, University of New South Wales, Kensington, NSW 2052, Australia;

<sup>3</sup>Biological Sciences Department, California State Polytechnic University, Pomona, CA 91768, USA;

<sup>4</sup>Institute of Marine Biology and Center of Excellence for the Oceans, National Taiwan Ocean University, Keelung 202301, Taiwan;

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<sup>5</sup>Department of Life Sciences, The Natural History Museum, London SW7 5BD, UK;

<sup>6</sup>Department of Invertebrate Zoology, National Museum of Natural History, Smithsonian Institution, 4210 Silver Hill Road, Suitland, MD 20746, USA;

<sup>7</sup>Centre d'Estudis Avançats de Blanes (CEAB-CSIC), C. access Cala S. Francesc, 14. 17300 Blanes, Spain;

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<sup>8</sup>Lee Kong Chian Natural History Museum, National University of Singapore, Kent Ridge, Singapore 119260, Republic of Singapore;

<sup>9</sup>Museums Victoria, GPO Box 666, Melbourne, Vic. 3001 Australia;

<sup>10</sup>Ecole navale, Lanvéoc, CC 600, 29240 Brest Cedex 9, France; and

<sup>11</sup>Museu de Zoologia da Universidade de São Paulo, Ave Nazareth 481, São Paulo, SP, 04263-000, Brazil

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Correspondence: B. Richer de Forges; e-mail: [b.richerdeforges@gmail.com](mailto:b.richerdeforges@gmail.com)

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(Received 4 June 2021; accepted 11 June 2021)

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### ABSTRACT

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The French carcinologist and oceanographer Alain Crosnier (1930–2021) had a most influential role in modern carcinology. This tribute reviews his contributions to organising oceanographic expeditions; expanding collections of specimens, particularly from the deep sea; and supporting international collaboration for taxonomic investigations of the rich collections of material obtained from these expeditions. His expertise and enthusiasm also extended to the publication of the results of these investigations.

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**Key Words:** Crustacea, Decapoda, deep-sea fauna, Indo-West Pacific region, oceanographic expeditions, taxonomy

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### INTRODUCTION

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Knowledge in marine zoology has progressed remarkably during the 20th century. Such progress resulted mostly from an increase in the number of regions studied, most especially across the tropical regions, areas with the highest biodiversity. The period of numerous international exploratory expeditions between the 1870s and 1950s was followed by a marked reduction in such effort, coinciding with the development of more ecologically-based research in the 1960s. The development of new techniques and the extension of the depth zones abled to be explored gave explorations a fresh start in the 1970s.

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The French carcinologist Alain Georges Paul Crosnier (1930–2021) (Fig. 1) played a considerable role in this in several key ways: organization of oceanographic expeditions in the research vessels of Office de la Recherche Scientifique et Technique Outre-Mer (ORSTOM), Institut Français de Recherches sur la Mer (IFREMER), and of Terres Australes et Antarctiques françaises (TAAF); substantial expansion of marine sampling (intensity and geographic coverage); and, most importantly, catalysing taxonomic

work, first in western Africa and eventually across the Indian and Pacific oceans (see Crosnier & Forest, 1973; Poore, 2004; Bouchet *et al.*, 2008; Richer de Forges, 2013; Chan *et al.*, 2017; Richer de Forges & Bouchet, 2021). With remarkable energy and tenacity, Crosnier masterminded the four fundamental stages for excellence in taxonomic research: 1) collection, 2) sorting and dispatching the collections, 3) obtaining financial support for invited specialists from all over the world to the Muséum national d'Histoire naturelle, Paris (MNHN) to identify the vast collections, and 4) the publication of the results in numerous series of publications (see Macpherson *et al.*, 1998; Richer de Forges *et al.*, 2013).

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Crosnier was not just an organiser but also a specialist in the taxonomy of tropical crustaceans, first in Madagascar and the French Congo (present-day Republic of the Congo) and eventually across the Indo-West Pacific region. He was convinced that the best road for the development of research in taxonomy was to expand both collecting and the diffusion of the results. He thus used his expertise and his eventual directorship of ORSTOM to promote numerous projects on the biodiversity of the Indo-West Pacific fauna.

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**Figure 1.** Alain Georges Paul Crosnier (1930–2021).

#### INTERNATIONAL COLLABORATION

Crosnier not only put together, nurtured, and developed a network of international taxonomists to study the newly collected material in Paris, but stimulated researchers at the ORSTOM centre in Nouméa, New Caledonia to collaborate with neighbouring nations: Australia, New Zealand, Indonesia, and those in Southeast Asia. The new series of deep-water explorations in 1976 highlighted the capture of the famous “living fossil” *Neoglyphea inopinata* Forest & de Saint Laurent 1975 (Decapoda, Glypheidea) (Fig. 2) in the Philippines during the first of many MUSORSTOM expeditions. It was Crosnier who persuaded the ORSTOM’s administration to divert N.O. *Vauban* on its way from Marseille to Nouméa with a detour to the Philippines to look again for *Neoglyphea*. The MUSORSTOM 1 Expedition was in many ways, starting point for the establishment of an international network of taxonomists and the eventual publication of their results.

2.55

#### PROMOTER OF WORK ON THE TAXONOMY OF MARINE BENTHOS

In addition to his own work on the taxonomy of penaeoid and caridean shrimps as well as brachyuran crabs (Crosnier & Forest, 1973; Crosnier, 1962, 1965, 1986, 1987, 1988a, b, 1991, 1994, 2003; Crosnier et al. 2007), Crosnier initiated studies on the benthos of the New Caledonia reef lagoons (1984–2000) (Richer de Forges, 1991). With the support of Claude Lévi, sponge specialist at MNHN, a team of divers and biologists began collecting in the lagoons, the collections shared with taxonomists around the world. The resulting taxonomic work, which included the description of numerous new species, started publication as part of the Faune tropical series: echinoderms (Guille et al., 1986), ascidians (Monniot et al., 1991), sponges (Lévi et al., 1998), gorgonians (Grashoff & Bargibant, 2001), and marine snakes (Ineich & Laboute, 2002). Crosnier also encouraged publication for the



**Figure 2.** Living specimen of *Neoglyphea inopinata* Fore de Saint Laurent, 1975 on board N.O. *Vauban* in 1976 (photo by J. Forest).

general public, as in the case of volumes on fishes (Fourmanoir & Laboute, 1976; Laboute & Grandperrin, 2016) and invertebrates in general (Laboute & Richer de Forges, 2004).

Investigations undertaken in 1976 on the upper bathyal zone south of New Caledonia by Claude Lévi, Philippe Bouchet, and Anders Warén on board N.O. *Vauban* further revealed huge gaps in knowledge of the fauna, with half of the species collected being new to science. It became evident that the Pacific deep-sea fauna was enormously rich and at the same time poorly known. Additional oceanographic expeditions between 1984 and 2020 (Fig. 3) attempted to fill the gaps. By 2017, 83 expeditions had been organised, 32 volumes and more than 1,500 articles had been published, and more than 3,600 new species described (Bary, 2018; Ng & Bouchet, 2019), an extraordinary achievement.

#### PUBLICATION OF EXPEDITION RESULTS

The ‘Résultats des Campagnes MUSORSTOM’ series began in 1981 with Jacques Forest as editor. Forest edited the first five volumes, including his monograph on the pylochelid pagurids (Forest, 1987). Crosnier became editor of the series starting with the Volume 6, and remained editor until Volume 21 in 2000. Volume 6 signalled an extension of the series’ focus to the rest of the Indo-West Pacific, while reporting material mostly collected from New Caledonia. Such wider coverage saw the need to revise the taxonomic information provided by earlier classical work based on the collections obtained by the *Challenger*, *Investigator*, *Albatross*, *Valdivia*, *Siboga*, and *Galathea* expeditions. The series became a groundwork of valuable information, and praise-worthy. Clark (2000), in his review of Volume 20, wrote ‘The MUSORSTOM marine biological project with its vision of unselfish international scientific collaboration is probably unrivalled in our modern era. May its tropical deep-sea program be funded, long into the new millennium by the French government.’ Volume 23 of *Tropical Deep-Sea Benthos*, the successor of the MUSORSTOM series, was highlighted as ‘This sustained continuity relied for many years on the energy and enthusiasm of Alain Crosnier, formerly at ORSTOM ... Of the 226 species reported, described and illustrated in the present volume, no less than 82 (36%) are new’ (Poore, 2004).

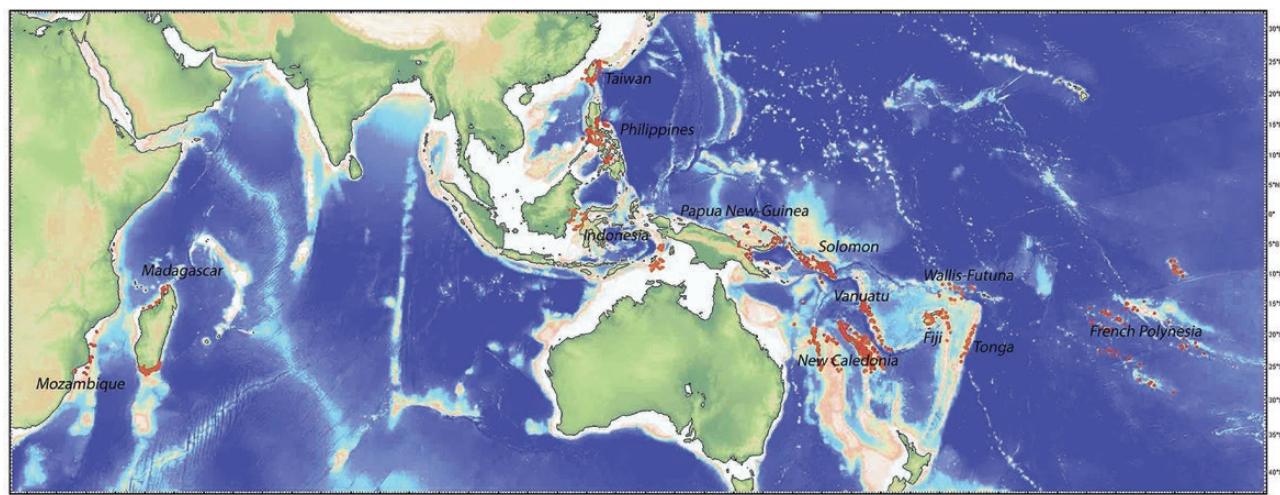
Philippe Bouchet, malacologist at MNHN, took over the publication of *Tropical Deep-Sea Benthos* (TDB) (Fig. 4) with Crosnier’s retirement in 2001.

#### IMPACT ON STUDIES ON MARINE BIODIVERSITY

Supplementary material Appendix S1 provides an exhaustive list of taxa named in honour of Crosnier. An examination of the families, genera, and species clearly shows that Crosnier was well respected by taxonomists working on many groups of animals, not only crustaceans, with one family, 13 genera, and 129 species being named in his honour to date.

Not to be forgotten is his crucial role in motivating the training of French researchers and technicians in the field of carcinology.

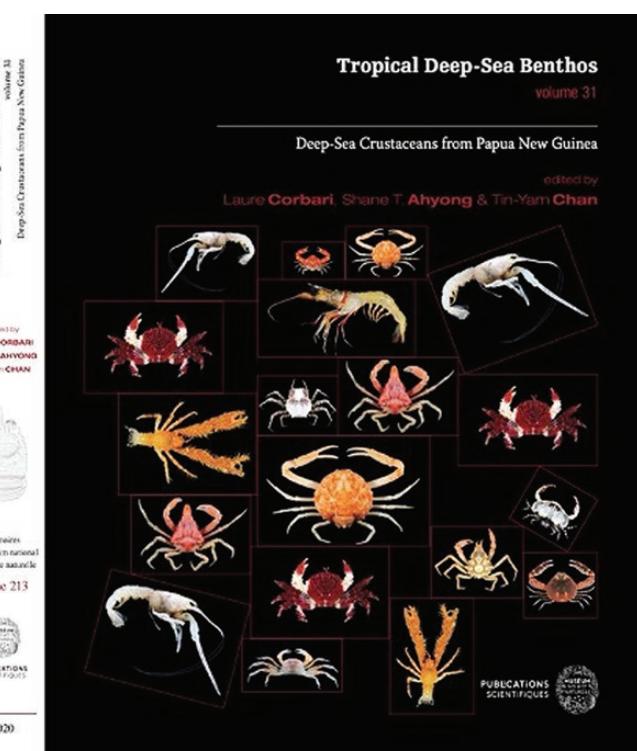
## ALAIN CROSNIER'S ROLE IN MODERN CARCINOLOGY



**Figure 3.** The Indo-West Pacific region and the areas (in red) sampled by recent French expeditions (from Richer de Forges *et al.*, 2013).



**Figure 4.** Cover of Volume 31 of the MUSORSTOM/ *Tropical Deep-Sea Benthos* series, which was devoted to the crustaceans of Papua New Guinea.



Among the many names, we can mention Arthur Anker, Régis Cleva, Jean-François Dejouannet, Laure Corbari, Pierre LeLoeuff, Jacques Marcille, Pierre Noël, Olga Odinetz, Joseph Poupin, Sonia Ribes-Beaudemoulin, and Bertrand Richer de Forges.

His inspiration also influenced a large body of non-French researchers who became leaders in their respective nations and disciplines: Australia: Shane T. Ahyong, Alexander (Sandy) J. Bruce, Niel Bruce, Peter J.F. Davie, Diana Jones, Jim Lowry, Gary C.B. Poore; Belgium: Cédric d'Udekem d'Acoz; Brazil: Marcos Tavares; China, Huilian Chen, Xinzhen Li; Germany: Angelika Brandt, Michael Türkay; Indonesia: Mohammad Kasim Moosa, Dwi Listyo (Yoyo) Rahayu; Israel: Bella Galil; Japan: Keiji Baba, Ken-Ichi Hayashi, Tomoyuki Komai, Tohru Naruse, Masayuki Osawa, Katsushi Sakai; The Netherlands: Charles Fransen, Jan Stock; New Zealand: John Buckeridge, Colin McLay; Romania:

Mihai Bacescu; Russia: Rudolf Burukovsky, Vassily A. Spiridonov, Alexis Vereshchaka; Singapore: Diana Chia, Ngan Kee Ng, Peter K.L. Ng, José Christopher Escano Mendoza, Sheryl Tan, Swee Hee Tan; Spain: Jordi Corbera, Enrique Macpherson, Ferran Palero; Taiwan: Benny K.K. Chan, Tin-Yam Chan, Dinh-Ann Lee, Chia-Wei Lin; United Kingdom: Roger Bamber, Paul F. Clark, Rony Huyse; and United States: Christopher B. Boyko, Peter (Pedro) Castro, Joseph W. Goy, Janet Haig, Roy K. Kropp, Raymond B. Manning, Patsy A. McLaughlin, Rafael Lemaitre, John C. Markham. The authors of many of the articles published in the MUSORSTOM/TDSB series were former collaborators of Crosnier, who became referred to as 'Crosnier's cronies' (Macpherson *et al.*, 1998; [Supplementary material Appendix 2](#)). He was able to find funds to bring together groups of researchers to work alongside each other in Paris for weeks (and sometimes

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4.5	for months) at a time. This strategy was in part responsible for the enthusiasm that these individuals showed for contributing to the MUSORSTOM/TDSB series. Crosnier's scientific vision significantly looked not only to the best current workers in the field, but also toward finding and fostering the next generation of experts who could succeed their contemporaries.	
4.10	Thanks also to international links initiated by Crosnier, additional expeditions were organized in Indonesia (KARUBAR on board <i>Baruna Jaya 1</i> in 1991; see Crosnier <i>et al.</i> , 1997) and Taiwan (since 2000 and still ongoing) on board both research and fishing vessels (Richer de Forges & Justine, 2006).	
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	<b>TAXONOMIC REVISIONS</b>	
4.20	The study of the valuable MUSORSTOM/TDSB collections in Paris, together with the study of collections in other museums, resulted in the publication of comprehensive revisions of many taxa. As editor, Crosnier encouraged contributors to look beyond the material at hand to ensure the revision had a lasting impact. Many of the resulting works are now the 'go-to' article for subsequent research. Besides the 1,500 articles in the MUSORSTOM/TDSB volumes, many have been published in other journals. Besides Crosnier's editorial work and own contributions to the MUSORSTOM/TDSB series, he took more than a year to edit a manuscript on the Xanthoidea (Brachyura) of the Indian Ocean left unfinished by the death of his colleague and friend Raoul Serène (Serène, 1984). This remains a key work on these difficult families of crabs.	
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4.30	Forest (1987) revised the Pylochelidae, a family of symmetric pagurids (Anomura) that live within wood, sponges, or pumice, based mainly on the MUSORSTOM collections from the Philippines. Guinot & Richer de Forges (1981, 1987) revised Homolidae (Brachyura), and two new families of Brachyura, Phyllotymolinidae and Trichopeltariidae, were described by Tavares (1995) and Tavares & Cleva (2010), respectively. Revisions of other groups of brachyuran crabs followed: Cyclodorippidae and Cymonomidae (Tavares, 1993), Trapeziidae and Tetraliidae (Castro, 1997a, b, 1999; Castro <i>et al.</i> , 2004), Palicoidea (Castro, 2000), Latreilliidae (Castro <i>et al.</i> , 2003), Eribusidae (Castro, 2005), Gonoplacidae (Castro, 2007, 2012), Chasmocarcinidae (Ng & Castro, 2016). Other revisions of mostly deep-water taxa should also be noted, among others: callianassoid and axiid Axiidea (Poore, 2015, 2020; Poore <i>et al.</i> , 2019; Robles <i>et al.</i> , 2020); Parapaguridae (Anomura) (Lemaitre, 1994, 1997, 1998, 1999, 2004, 2013, 2014), Bathynomus A. Milne-Edwards, 1879 (Isopoda) (Lowry & Dempsey, 2008), Chirostyliidae especially <i>Uropyctus</i> Henderson, 1888 (Anomura) (Baba, 2018), Munida Leach, 1820 and <i>Munidopsis</i> Whiteaves, 1874 (Anomura) (Macpherson, 1994, 2007), many groups of Penaeidae (Crosnier, 1986, 1987, 1988a, 1991, 1994, 2003; Crosnier <i>et al.</i> , 2007; Chan <i>et al.</i> , 2016) Caridea (Noël, 1986; Crosnier, 1988b; Cleva, 1990, 2001; Chan & Crosnier, 1991, 1997; Chan, 2004; Hayashi, 1999, 2004, 2006; Komai, 2004, 2006a, 2008; Kim & Chan, 2005), and lobsters (Achelata, Astacidea, Polychelidae) (Macpherson, 1990; Poupin, 1994; Chan & Yu, 1995; Chan, 1997; Chan & de Saint Laurent, 1999; Galil, 2000; Holthuis, 2002). Also resulting from the rich collections were revision of other groups of invertebrates such as stylasterid corals (Hydrozoa) (Cairns, 2015), pyramidelloid molluscs (Peñas & Rolán, 2017), and other families of Mollusca.	
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	<b>DISCOVERY OF 'LIVING FOSSILS'</b>	
4.70	Numerous species of marine invertebrates previously known only as fossils were discovered by MUSORSTOM expeditions (Bary, 2018). The decapod <i>Neoglyphea inopinata</i> Forest & Saint Laurent, 1975 was discovered during the first MUSORSTOM expedition to the Philippines (Forest & de Saint Laurent, 1975, 1976), with	
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**Figure 5.** *Laurentaeglypaea neocaledonica* (Richer de Forges, 2006) collected during the EBISCO expedition on board NO'Alis in the Chesterfield Is. (photo by J. Lai).

## ALAIN CROSNIER'S ROLE IN MODERN CARCINOLOGY

- 5.5 Information obtained by the MUSORSTOM/TDSB expeditions has also provided data for other investigations: speciation and endemism in seamounts (Richer de Forges *et al.*, 2000; Samadi *et al.*, 2006; Castelin *et al.*, 2011), fauna associated with organic substrates (Samadi *et al.*, 2010), venomous molluscs (Puillandre *et al.*, 2011), phylogeny based on molecular data and sperm ultrastructure (Cohen *et al.*, 2004; Boisselier *et al.*, 2010; Tudge *et al.*, 2012), symbiosis and parasitism (Forest, 1987; Lemaitre, 2004), and even biochemistry (Laille *et al.*, 1998; Le Gall *et al.*, 1999; Debitus & Kornprobst, 2014; Motuhu *et al.*, 2016). These studies, as well as ongoing research in various fields, are consequence of the efforts started by Crosnier. Two volumes of *Tropical Deep-Sea Benthos* will be published this year, one on the decapod crustaceans of the southwestern Indian Ocean edited by L. Corbari *et al.* and another dealing with the deep-sea corals that will make New Caledonia the epicenter of the marine biodiversity of the Pacific Ocean (M. Kitahara & S. Cairns, unpublished data). The enormous influence of A. Crosnier in the development of marine biology and zoology during the 20th century is still been felt during the 21st century.
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- SUPPLEMENTARY MATERIAL**
- Supplementary material is available at *Journal of Crustacean Biology* online.
- 5.30 S1 Appendix. List of species named in honour of A. Crosnier.  
S2 Appendix. Photo album of A. Crosnier and colleagues.
- 5.35
- ACKNOWLEDGEMENTS**
- We dedicate this article to Alain Crosnier in acknowledgement for his unique contribution in facilitating the discovery and eventual description of many marine taxa. Alain was truly an international personality who generously made the collections available to all biologists regardless of gender or creed. Alain was indeed a remarkable host. We thank the following researchers who contributed to the preparation of the manuscript: Keiji Baba, Philippe Bouchet, Angelica Brandt, Niel Bruce, John Buckeridge, Danielle Defaye, Jean-François Dejouannet, Bella Galil, Cédric D'Udekem D'Acoz, René Grandperrin, Dennis Gordon, Danièle Guinot, John Hooper, Diana Jones, Michelle Kelly-Borges, Jim Lowry, Philippe Maestrati, Jose Christopher Escano Mendoza, Tina Molodtsova, Sarah Samadi, Karen Schnabel, Bernard Séret, Masatsune Takeda, and Helmut Zibrowius.
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## ALAIN CROSNIER'S ROLE IN MODERN CARCINOLOGY

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