

# The Contribution of J. K. Lowry (1942–2021) to Amphipod Systematics: New and Revisionary Taxonomy

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**ABSTRACT.** James K. Lowry (1942–2021) was one of the most prolific crustacean taxonomists of the late 20th through early 21st century, authoring some 214 publications over a period of some 55 years in which he named some 800 new taxa including 5 suborders, 62 families, 129 genera, and 548 species of primarily amphipod crustaceans. The present work provides a complete list of Jim Lowry's scientific publications along with the new taxa that he described therein.

## Introduction

Dr James K. (Jim) Lowry (1942–2021) was one of the most prolific crustacean taxonomists of the late 20th through early 21st centuries, authoring 214 publications over a period of 55 years. Jim's taxonomic career can be grouped into a number of phases that resulted in multiple publication outputs: early studies of the New Zealand fauna arising from taxonomic investigations from his PhD based in New Zealand and working in the sub-Antarctic; the beginnings of the world lysianassoid work; the Papua New Guinea publications; the *Zoological Catalogue of Australia* on Amphipoda, Cumacea, and Mysidacea; Great Barrier Reef Amphipod Expedition; Circum-Australian Amphipod Project; consolidation of the lysianassoid work; and talitroid revisions. Importantly, weaved across the decades, were the higher classification studies with Alan Myers and many fruitful collaborations in between.

At the time of writing, Jim had contributed 800 new taxa to, as the late Thomas Roscoe Rede Stebbing would write,

Amphipodous Crustaceology. This includes 5 new suborders, 62 new families, 129 new genera and 548 new species (Table 1), yet this number will increase in the coming years as collaborating authors finalize manuscripts. This is fitting, as Jim collaborated widely, with more than 50 international colleagues during his five decades of taxonomic publishing.

Jim's legacy in amphipod taxonomy provides a continuation of the iconic work of his dear friend and mentor, the late Dr J. Laurens (Jerry) Barnard, whose publications between the 1950s and early 1990s are foundational for modern researchers. Jim first corresponded with Jerry in the 1970s during his PhD, as a formative mentor, was well established in what would become a phenomenal contribution to understanding higher relationships of amphipods across five decades, a field that had largely been left untouched since Stebbing at the beginning of the century. Jim is the second most productive amphipod worker in history, behind only Jerry Barnard for both descriptive and revisionary work. Jim's 55 year history of research undeniably identifies him as a great contributor with broad ranging alpha-taxonomy

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