



Dr. Andrea Desiderato





AZORES (PT.) MADEIRA (PT.) MOROCCO ATLANTIC (**OCEAN** (ES.) MAURITANIA SENEGAL

Oceanic Island biogeography

DOI: 10.1111/zsc.12339

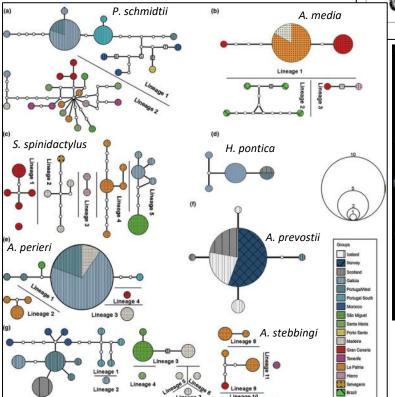
ORIGINAL MANUSCRIPT

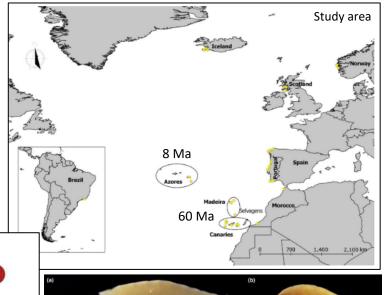
WILEY Zoologica Scripta 🖭 🚳

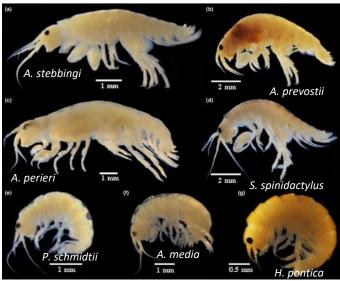
Macaronesian islands as promoters of diversification in amphipods: The remarkable case of the family Hyalidae (Crustacea, Amphipoda)

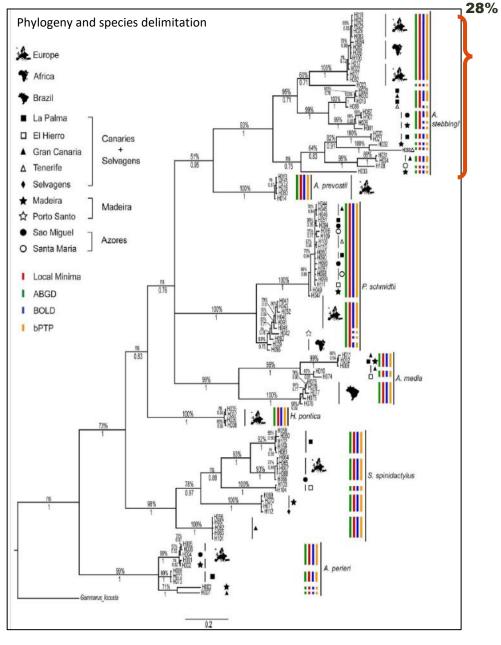
Andrea Desiderato^{1,2,3,4} | Filipe O. Costa^{5,6} | Cristiana S. Serejo⁷ | Marco Abbiati^{8,9,10} Henrique Queiroga¹ | Pedro E. Vieira^{1,5,6}

Haplotype networks of COI









11MOTUs

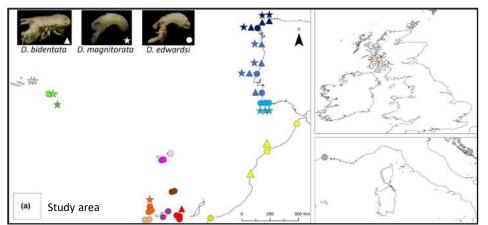
DOI: 10.1111/mec.15052

ORIGINAL ARTICLE

WILEY MOLECULAR ECOLOGY

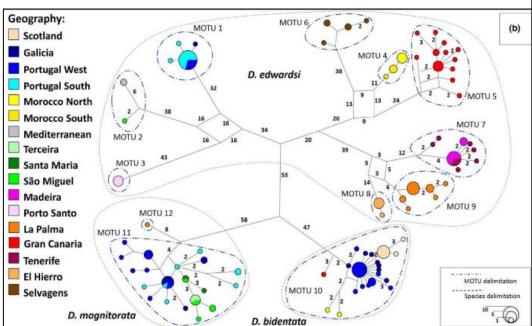
Deep segregation in the open ocean: Macaronesia as an evolutionary hotspot for low dispersal marine invertebrates

Pedro E. Vieira^{1,2,3} | Andrea Desiderato^{4,5} | David M. Holdich⁶ | Pedro Soares^{2,7} | Simon Creer³ | Gary R. Carvalho³ | Filipe O. Costa^{2,7} | Henrique Queiroga¹

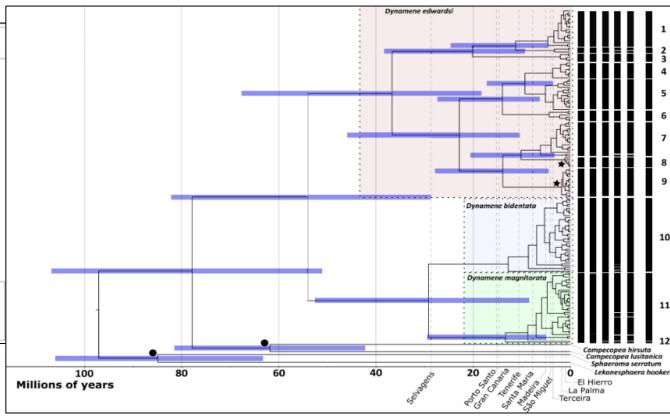


Four loci used: COI, 16S, 18S and 28S

Time tree of the three *Dynamene* species

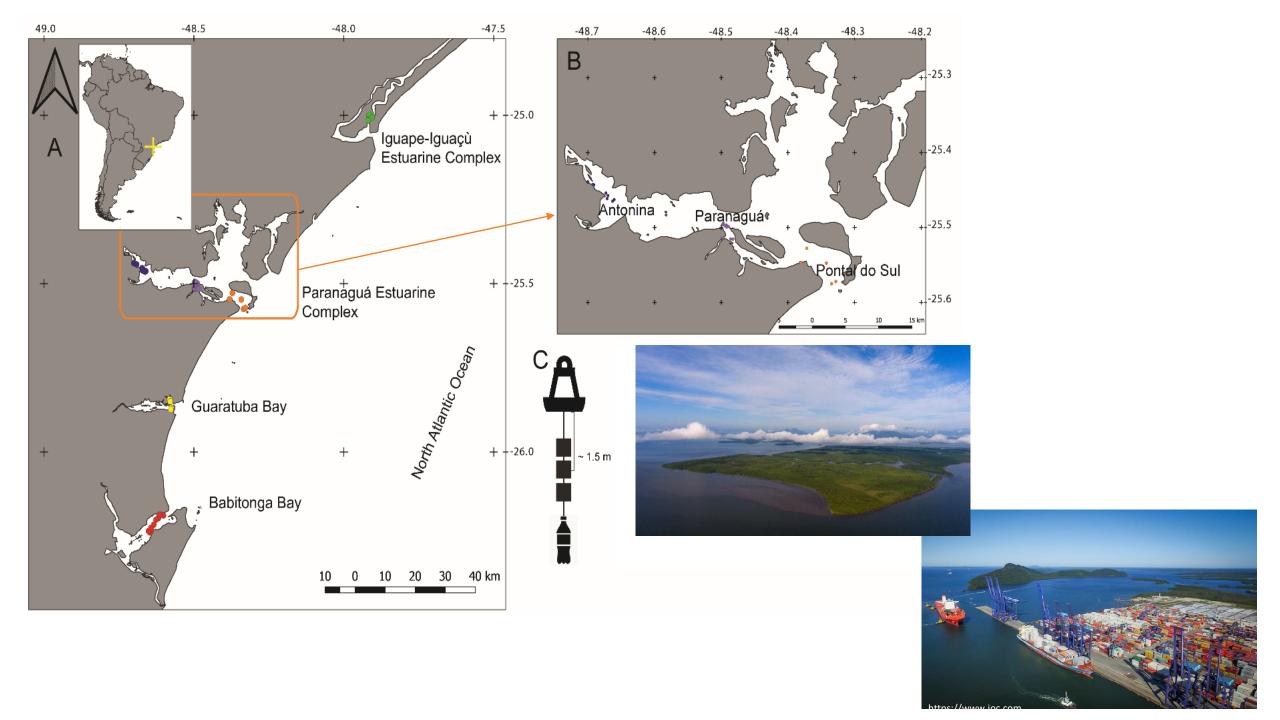


Haplotype network of the three *Dynamene* species based on COI gene

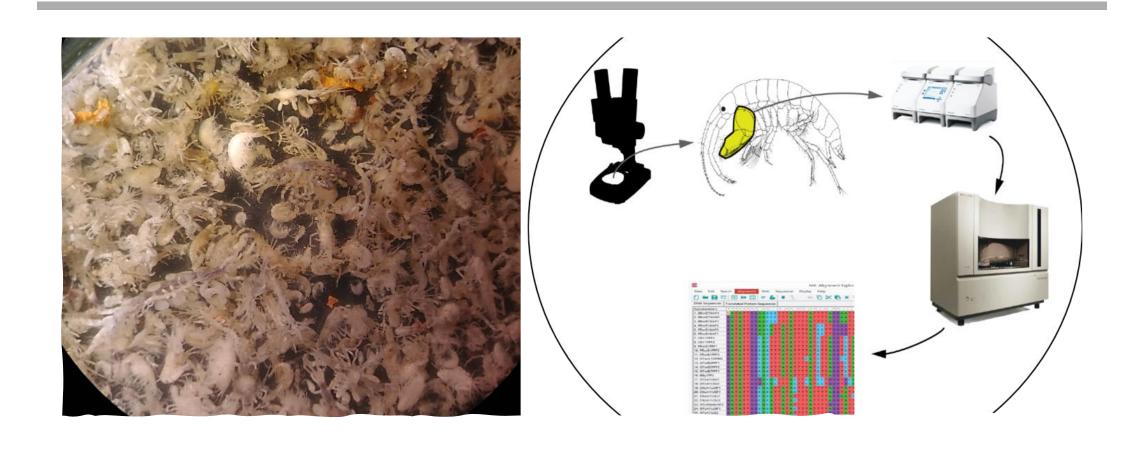




FOULING AND ANTHROPOGENIC IMPACT



CO1 barcoding



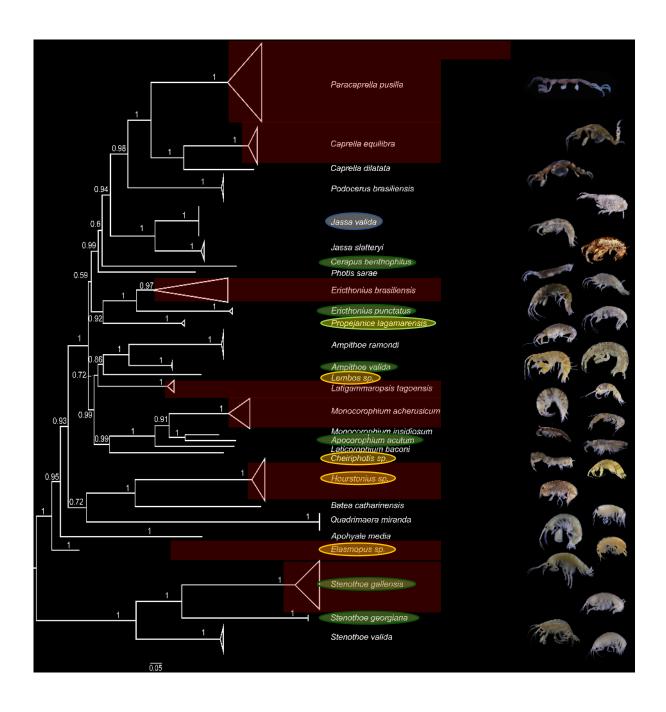
27 Morphospecies

6 new records

1 species rediscovered

5 species new to science

8 with multiple BINs



New species described



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Monograph



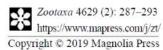
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ZOOTAXA



Jassa (Crustacea: Amphipoda):
a new morphological and molecular assessment of the genus

KATHLEEN E. CONLAN1, ANDREA DESIDERATO23 & JAN BEERMANN2.4.5



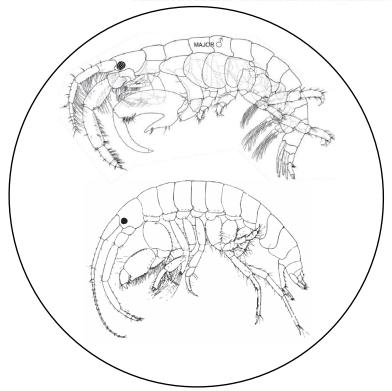
Article



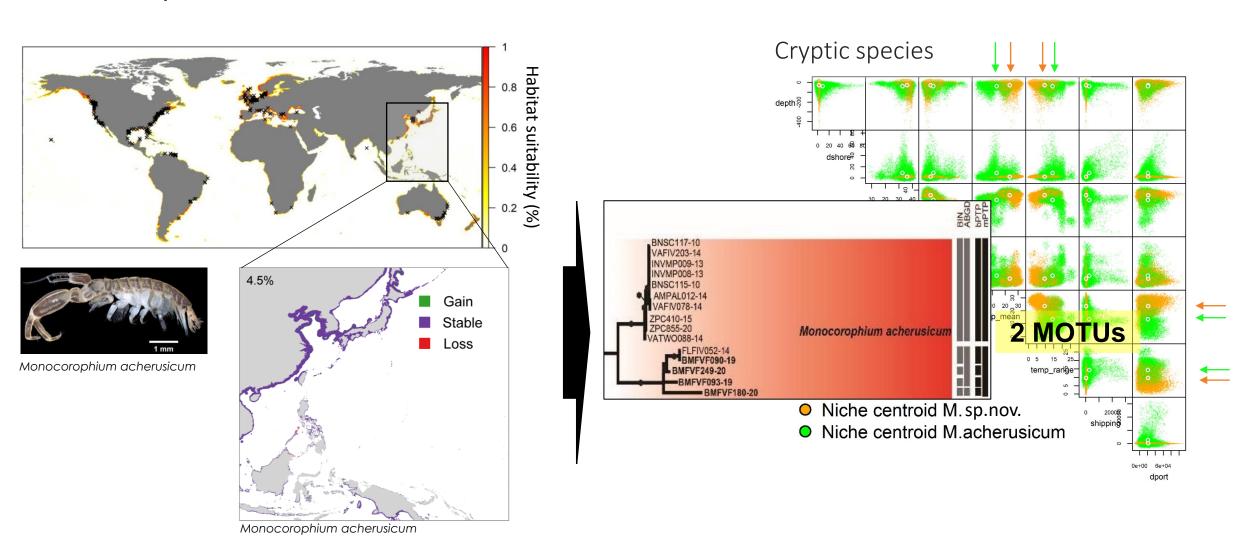
https://doi.org/10.11646/zootaxa.4629.2.11 http://zoobank.org/urn:lsid:zoobank.org:pub:6CC13FC6-7458-46F6-BB52-992528F7B449

A new genus and species of Aoridae (Amphipoda, Senticaudata), *Propejanice lagamarensis* gen. nov. sp. nov. from Brazil

ALAN A. MYERS1 & ANDREA DESIDERATO23



Species Distribution Models and Niche delimitation



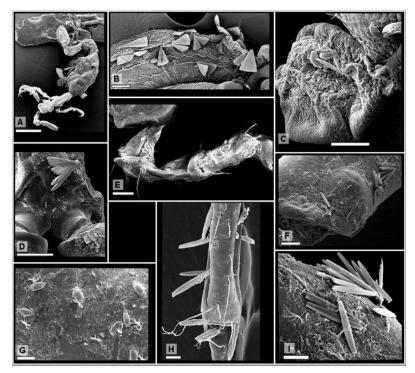




Communication

Diatom Epibionts on Amphipod Crustaceans: a Possible Vector for Co-Introductions?

Andrea Desiderato 1,2,3,*, Jan Beermann 1,4, Maria Angelica Haddad 2 and Luciano Felicio Fernandes 5



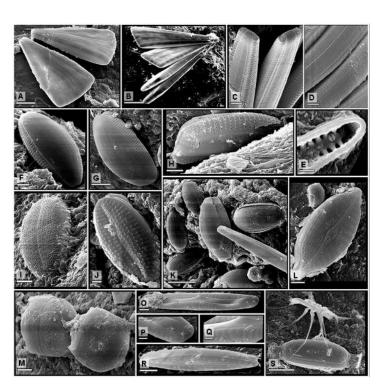
12 diatom species and one **new record**

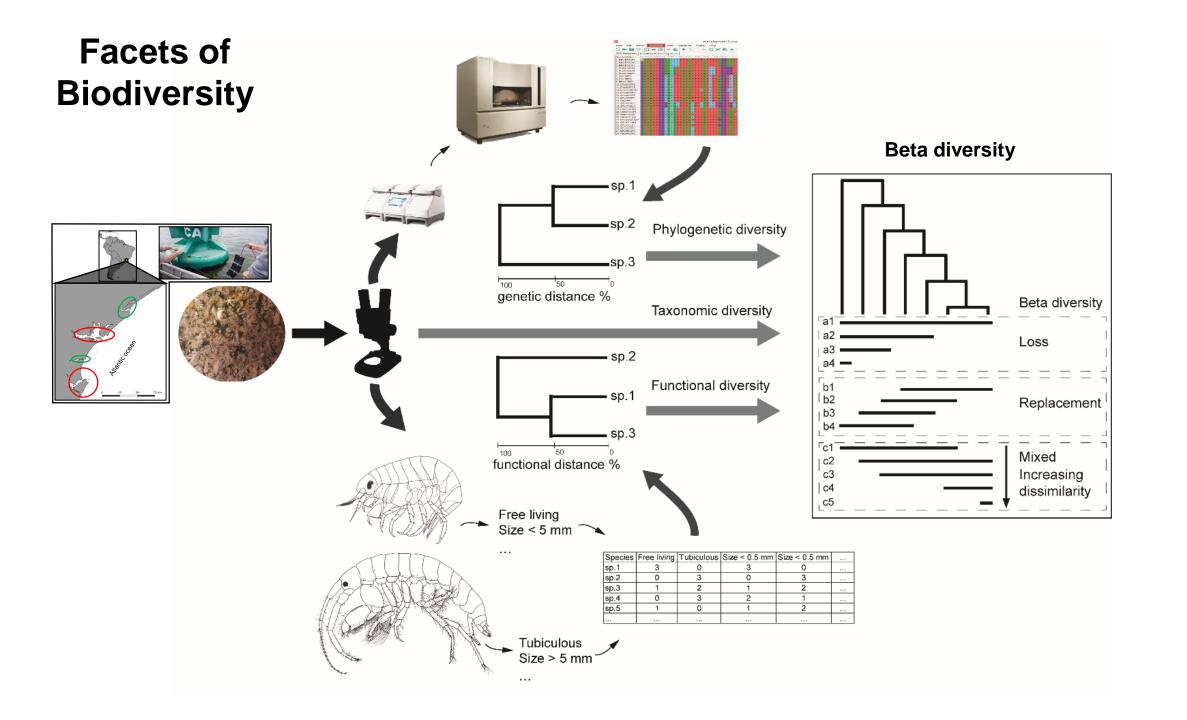


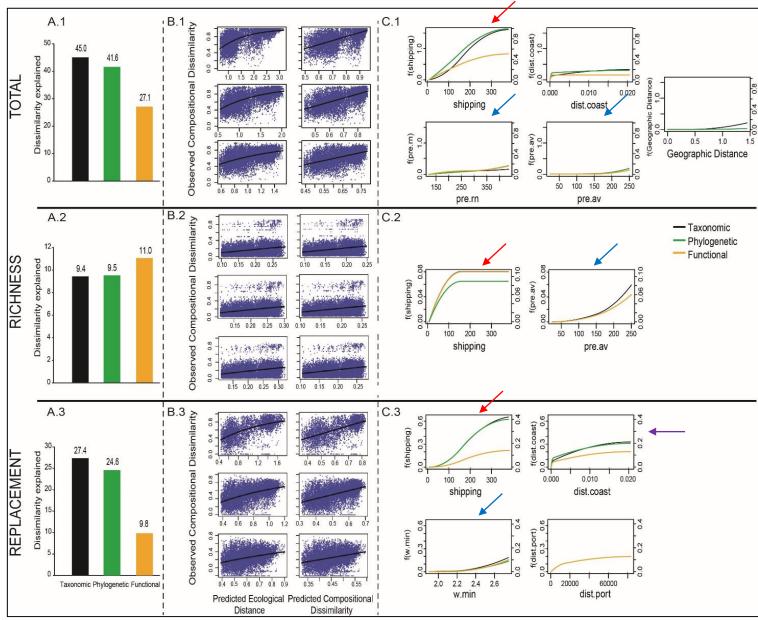
Densely coated male of Paracaprella pusilla



Dissected pereopods of Paracaprella pusilla with epibionts







Generalised dissimilarity models for each level and type of beta-diversity and relative explanatory variables

- The beta-diversity is heavily influenced by the number of ships visiting ports in estuaries
 - Seasonality influences the similarity between estuaries
- **Stochastic colonization** increasing with distance

Why the Fouling?

- Status of species (native, introduced or cryptogenic) difficult to assess.
- There is a huge gap of knowledge, and in tropical and subtropical regions this tends to increase.
- Biogeographic patterns not clear needing specific research.

Why Taiwan?

- The studies addressing amphipods usually report new records or new species and address only a few families.
- There are **no studies** on the **fouling**.
- Starting a **baseline** to address **present** and **future threats** is of outmost importance.
- Fill the gaps into the knowledge of amphipods at taxonomical and molecular level (only 49 sequences in BOLD).
- As relatively young oceanic Island, but close to the continent, Taiwan
 is also biogeographically interesting.

Thank you!



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