

Microbial community and network responses across strong environmental gradients: How do they compare with macroorganisms?

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Abstract

The way strong environmental gradients shape multispecific assemblages has allowed us to examine a suite of ecological and evolutionary hypotheses about structure, regulation and community responses to fluctuating environments. But whether the highly diverse co-occurring microorganisms are shaped in similar ways as macroscopic organisms across the same gradients has yet to be addressed in most ecosystems. Here, we characterize intertidal biofilm bacteria communities, comparing zonation at both the “species” and community levels, as well as network attributes, with co-occurring macroalgae and invertebrates in the same rocky shore system. The results revealed that the desiccation gradient has a more significant impact on smaller communities, while both desiccation and submersion gradients (surge) affect the larger, macroscopic communities. At the community level, we also confirmed the existence of distinct communities within each intertidal zone for microorganisms, similar to what has been previously described for macroorganisms. But our results indicated that dominant microbial organisms along the same environmental gradient exhibited less differentiation across tidal levels than their macroscopic counterparts. However, despite the substantial differences in richness, size and attributes of co-occurrence networks, both macro- and micro-communities respond to stress gradients, leading to the formation of similar zonation patterns in the intertidal rocky shore.

Keywords: co-occurrence networks; epibiotic biofilms; intertidal rocky shore; stress gradients; zonation

Introduction

Understanding the mechanisms and processes responsible for patterns of abundance and distribution of species across environmental gradients is one of the main goals of community ecology (Mittelbach and McGill 2019), and one of the most striking patterns is the zonation of dominant organisms that occupy different parts of the environmental gradient. These patterns have served as the basis to test core hypotheses about the organization of communities (e.g. Whittaker 1955) and the ecological processes shaping fundamental and realized species’ niches, such as physiological tolerances and species interactions (Connell 1961a,b, Menge and Sutherland 1987). For microorganisms, the “everything is everywhere, but the environment selects” hypothesis, set forth by Lourens Baas Becking in the early 1930s, has inspired the microbial biogeographical and ecological research of the past decades

(de Wit and Bouvier 2006, O’Malley 2007, Fontaneto 2011, Hanson et al. 2012) and suggests that microbial communities are primarily determined by unlimited dispersal and secondarily by environmental selection. Microbial biodiversity is significantly influenced by environmental gradients, particularly factors that impact soil or water pH (Rousk et al. 2010, Krause et al. 2012), temperature (Logares et al. 2020) and resource availability (Follows et al. 2007). The local environment plays a critical role in selecting which microorganisms are present and, like macroscopic organisms, the patterns of abundance and composition across environmental gradients are shaped by abiotic conditions and interactions among co-occurring microbes (Fontaneto 2011, Hanson et al. 2012, Mandakovic et al. 2018). While numerous studies have examined the biogeography and macroecology of microorganisms, comparing them with macroorganisms (Astoeaga et al.

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