

[Home](#) [Microbial Ecology](#) [Article](#)

Microbial Metabolites Beneficial to Plant Hosts Across Ecosystems

[Plant Microbe Interactions](#) Published: 22 July 2022Volume 86, pages 25–48, (2023) [Cite this article](#)[Download PDF](#) 

Access provided by University of Delhi.

[Microbial Ecology](#)[Aims and scope](#)[Submit manuscript](#)[Vartika Mathur](#)  & [Dana Ulanova](#)  **1498** Accesses  **2** Altmetric [Explore all metrics](#) →

Abstract

Plants are intimately connected with their associated microorganisms. Chemical interactions via natural products between plants and their microbial symbionts form an important aspect in host health and development, both in aquatic and terrestrial ecosystems. These interactions range from negative to beneficial for microbial symbionts as well as their hosts. Symbiotic microbes synchronize their metabolism with their hosts, thus suggesting a possible coevolution among them. Metabolites, synthesized from plants and microbes due to their association and coaction, supplement the already present metabolites, thus promoting plant growth, maintaining physiological status, and