

RSC Applied Interfaces

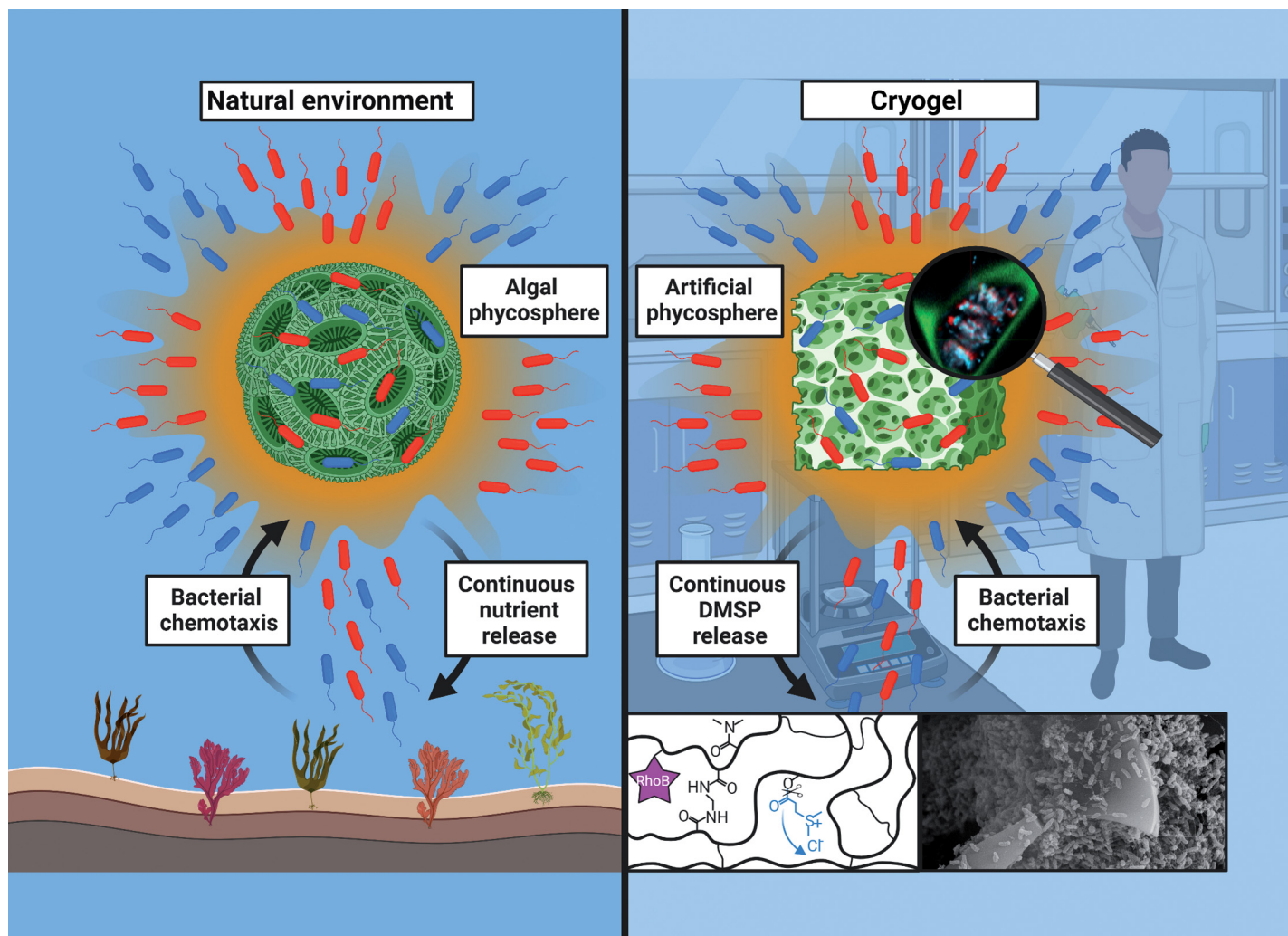
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**Interfacial and surface research
with an applied focus**

Interdisciplinary and open access

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**Fundamental questions
Elemental answers**



Showcasing research from Professor Georg Pohnert's and Professor Ulrich S. Schubert's laboratories at the Friedrich Schiller University, Jena, Germany

Dimethylsulfoniopropionate decorated cryogels as synthetic spatially structured habitats of marine bacterial communities

Guided by the model of nature, functionalized cryogels were prepared for the targeted delivery of dimethylsulfoniopropionate (DMSP) in a biomimetic manner as an essential metabolite for bacterial growth. These microstructured polymeric scaffolds, so-called microbial arenas, provide a platform to establish the interactions of microbial communities whilst allowing optical, RT qPCR, electron microscopical and analytical monitoring of the community development.

Image created with BioRender.com

As featured in:



See Georg Pohnert, Ulrich S. Schubert *et al.*, *Mater. Horiz.*, 2023, 10, 2412.