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To diversity and beyond

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Document Version

Publisher's PDF, also known as Version of record

Publication date:

2017

[Link to publication in University of Groningen/UMCG research database](#)

Citation for published version (APA):

Rozema, P. D. (2017). To diversity and beyond: Shifting Antarctic microbial communities along environmental gradients. [Groningen]: University of Groningen.

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Propositions

accompanying the dissertation

To diversity and beyond – Shifting Antarctic microbial communities along environmental gradients.

by Patrick D. Rozema

1. The major consequence of a lack of winter sea ice is not an increase in flagellated phytoplankton species but a lack of diatoms. (This thesis)
2. Contrary to current believe, the coastal summer phytoplankton community at the coastal western Antarctic Peninsula is strongly governed by major nutrients (This thesis).
3. The importance of, and dependence on mixotrophy in the coastal Antarctic Ocean is underestimated. (This thesis)
4. The existence of phytoplankton ecotypes underlines the necessity to upscale current strain isolation efforts. (This thesis)
5. At the WAP, linking oxygen isotopes to different sources of fresh water is well established, yet linking these isotopes to different microbial communities is not straight forward. (This thesis)
6. Data management is a means, not a goal.
7. The locations of Antarctic research stations are not first and foremost driven by research interests.
8. To think out of the box, one needs to assume the existence of a box.