



UvA-DARE (Digital Academic Repository)

Out of balance: implications of climate change for the ecological stoichiometry of harmful cyanobacteria

van de Waal, D.B.

[Link to publication](#)

Citation for published version (APA):

van de Waal, D. B. (2010). Out of balance: implications of climate change for the ecological stoichiometry of harmful cyanobacteria.

General rights

It is not permitted to download or to forward/distribute the text or part of it without the consent of the author(s) and/or copyright holder(s), other than for strictly personal, individual use, unless the work is under an open content license (like Creative Commons).

Disclaimer/Complaints regulations

If you believe that digital publication of certain material infringes any of your rights or (privacy) interests, please let the Library know, stating your reasons. In case of a legitimate complaint, the Library will make the material inaccessible and/or remove it from the website. Please Ask the Library: <https://uba.uva.nl/en/contact>, or a letter to: Library of the University of Amsterdam, Secretariat, Singel 425, 1012 WP Amsterdam, The Netherlands. You will be contacted as soon as possible.

Table of contents

Chapter 1	Introduction	7
Chapter 2	Climate-driven changes in the ecological stoichiometry of aquatic ecosystems	17
Chapter 3	The ecological stoichiometry of toxins produced by harmful cyanobacteria: an experimental test of the carbon-nutrient balance hypothesis	29
Chapter 4	Amino acid availability determines the ratio of microcystin variants in the cyanobacterium <i>Planktothrix agardhii</i>	45
Chapter 5	Nitrogen pulse induces dynamic changes in amino acid composition and microcystin production of the harmful cyanobacterium <i>Planktothrix agardhii</i>	59
Chapter 6	Competition for CO ₂ between phytoplankton species: theory and experiments	73
Chapter 7	Afterthoughts	93
Appendices		103
References		117
Summary		131
Samenvatting		133
Gearfetting		137
Dankwoord		141
Curriculum Vitae		143
