

Ph.D. thesis

PH.D. THESIS

Clonality, connectivity, and conservation | Stefanie R. Ries 2025

# Clonality, connectivity, and conservation

Ries, S. R., Faust, E., Johannesson, K., Jonsson, P. R., Moksnes, P.-O., Pereyra, R. T., and Jahnke, M. (2023). Genetic structure and diversity of the seagrass *Zostera marina* along a steep environmental gradient, with implications for genetic monitoring. *Frontiers in Climate*, 5. doi: 10.3389/fclim.2023.1303337.

Ries, S. R., Jonsson, P. R., Moksnes, P.-O., Gustafsson, C., Kesy, K., Möller-Raid, T., André, C., Brauer, A. and Jahnke, M. (in review). Seascape genomics of the partially clonal seagrass (*Zostera marina*) in the Baltic Sea transition zone: relevance for climate adaptation and restoration. *Molecular Ecology*.

Jahnke, M., Ries, S. R., Enge, S., Pansch, C., Hattich, G., Bernal-Gómez, M., De Wit, P. and Havenhand, J. (2025). The influence of spatial distance and environment on small-scale genetic variability in eelgrass and its application for restoration. *Evolutionary Applications*, 18. doi: 10.1111/eva.70127.

Saha, A., Ries, S. R., Jahnke, M., Thormar, J., Sodeland, M., and Knutsen, H. (manuscript). Genomic erosion in a foundation species: evidence for an Arctic superclone and low genetic diversity in northern eelgrass (*Zostera marina*). *Proceedings of the National Academy of Sciences*.



Stefanie R. Ries

ISBN 978-91-8115-324-8 (PRINT)  
ISBN 978-91-8115-325-5 (PDF)  
<http://hdl.handle.net/2077/87603>

# Clonality, connectivity, and conservation

## Genomic insights into eelgrass (*Zostera marina*) across the Baltic and Scandinavian Seas

Stefanie R. Ries

DEPARTMENT OF MARINE SCIENCES



UNIVERSITY OF  
GOTHENBURG