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### The biocalcification of mollusk shells and coral skeletons: Integrating molecular, proteomics and bioinformatics methods

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**THE BIOCALCIFICATION  
OF MOLLUSK SHELLS AND CORAL  
SKELETONS**

**Integrating Molecular, Proteomics and  
Bioinformatics Methods**



**THE BIOCALCIFICATION  
OF MOLLUSK SHELLS AND CORAL SKELETONS**

**Integrating Molecular, Proteomics and Bioinformatics Methods**

ACADEMISCH PROEFSCHRIFT

ter verkrijging van de graad van doctor

aan de Universiteit van Amsterdam

op gezag van de Rector Magnificus

prof. dr. D. C. van den Boom

ten overstaan van een door het college voor promoties ingestelde

commissie, in het openbaar te verdedigen in de Agnietenkapel

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Paula Sequeira dos Ramos Silva

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Cover figures: CT-scan image of adult colony skeleton of *Acropora millepora* (bottom) and scanning electron microscopy image of shell microstructure of *Unio pictorum* (background).

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*This thesis is dedicated to two excellent  
scientists and amazing human beings,  
my parents*