Identification and localization of vacuolar organic acid carriers in grapevine berries

By

Jayachandra Rongala

A1157936

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Faculty of science

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DECLARATION

I declare that this thesis is a record of original work and contains no material which has been accepted for the award of any other degree or diploma in any university. To the best of my knowledge and belief, this thesis contains no material previously published or written by another person, except where due reference is made in the text.

Student:

Jayachandra Rongala

Date:

Supervisor:

Dr. Matthew Hayes

Date:

PREFACE

This research was performed over 10 months as part of Masters of Biotechnology (Plant Biotechnology). The literature review was previously assed by the examiners and suggested changes and updates were made accordingly. The present research manuscript herein provides the first draft of a future publication in Plant Physiology, due to time and some unexpected factors the project was not completed and all the data was not included in the manuscript, but the materials, methods and the outline was briefly explained in the "appendices" section.

The research manuscript outlines the introduction, results, discussion, material and methods. All the results are included in the sequential flow of my project except for the last part; functional expression in *xenopus* oocytes, which was included in the appendices.

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