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# DNA barcoding of South African red seaweed (Rhodophyta)

*Presented by*

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Prof. Rouvay Roodt-Wilding

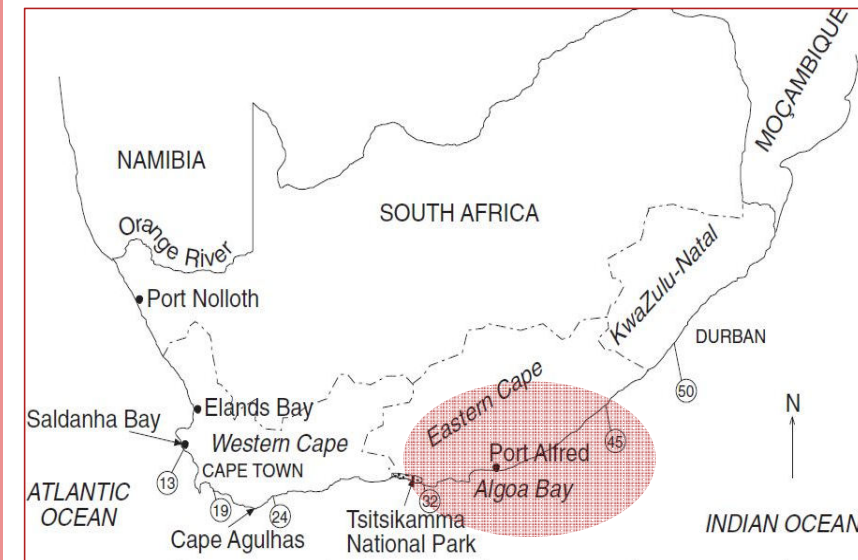
Prof. John Bolton

Prof. Robert Anderson



# Introduction

- » South Africa is renowned for its diverse seaweed flora
- » Port Alfred has a high species diversity and endemism
- » Rhodophyta is of particular importance
- » Limited taxonomic classification of species



J.J. Bolton & H. Stegenga, 2002



## Aim and Objectives

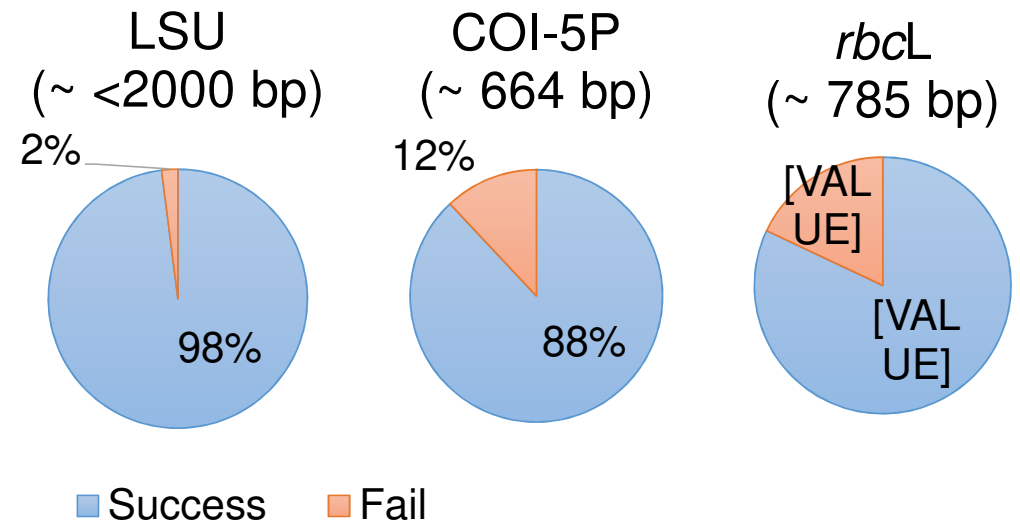
Use DNA barcoding as a tool to characterise and identify red seaweed species occurring in the Port Alfred region

1. Assessing three gene regions
2. Increasing the barcoding reference database
3. Potentially identifying new species



## What has been done?

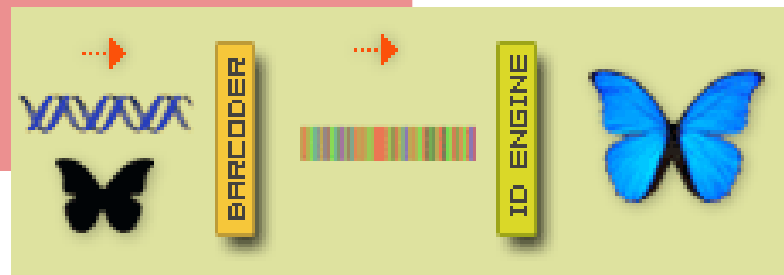
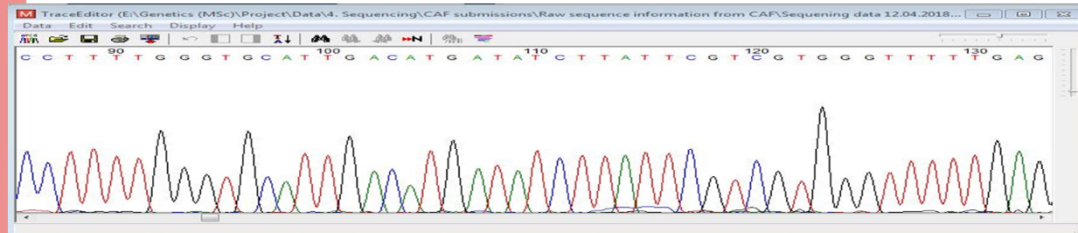
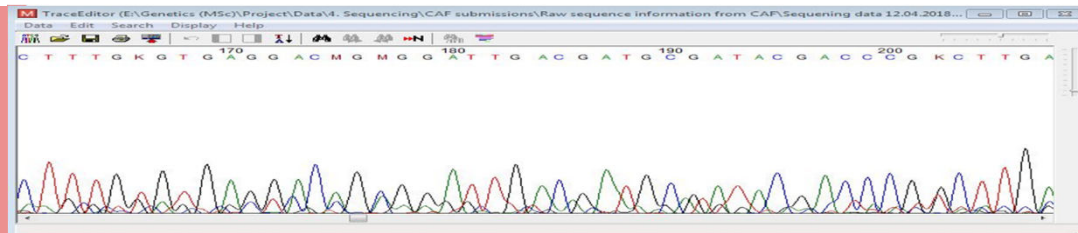
- » Sampling of 132 samples
- » DNA isolation via a modified CTAB method (Clarke, 2009)
- » Marker amplification profiles (Saunders and Moore, 2013)



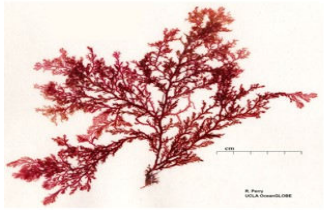


## Future aspects

- » Bi-directional sequencing of gene products
- » Sequence analysis
- » Data analysis
- » Species pages



**BOLD**  
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# Acknowledgements



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