



UNIVERSITÀ
DEGLI STUDI
DI PADOVA

Curriculum Vitae

Family Name: Ravi

Given Name: Samathmika

Nationality: Indian

Date of birth: 04/08/1991

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Education:

- PhD in Animal and Food Science, Università di Padova (2018)
- M.Sc. Master's in Bioinformatics and Applied Biotechnology, IBAB, University of Mysore, India (2014-2016)
- BSc. (Hons) Biomedical Sciences (Human Genetics), Sri Ramachandra Medical College and Research Institute, Chennai, India (2009-2013)

Research areas:

- Next Generation Sequencing
- Bioinformatic Analysis of Genomics and Transcriptomics data
- Molecular Biology
- Marker development for crop improvement

PhD project:

A bioinformatics approach towards understanding root architecture in sugar beet

Modern agricultural research is heavily reliant upon knowledge of the respective genomes for accelerated breeding. The advancements and reduced costs of next generation sequencing technologies assist in systematic identification of key molecular players in root architecture and related agronomics traits. The aim is to leverage available sequencing data in the best possible way using suitable bioinformatics pipelines to identify suitable molecular markers. The candidate markers will further be confirmed for their association experimentally for subsequent application in breeding programs.

Supervisor:

Prof. Piergiorgio Stevanato

Publications:

https://scholar.google.co.in/citations?user=EU_6F9MAAAAJ&hl=en