

SRI AMARNADH GUPTA TONDEPU



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EDUCATION

Università degli studi di Pavia (Unipv): PhD in Genetics, Molecular and Cellular biology

Pavia, Italy October 2022- 2025

Title of thesis: “ **Plant miRNAs - endogenous and exogenous post-transcriptional regulation of target genes**”

Supervisor: Anca Macovei < anca.macovei@unipv.it >

Reviewer: Mariangela Bonizzoni < mariangela.bonizzoni@unipv.it >

Università degli Studi di Milano (Unimi): MSc – Molecular Biotechnology and Bioinformatics

Milan, Italy October 2019- April 2022 Final grade: 107/110

Thesis: “Characterization of the *REM* family genes in inflorescence architecture of *Arabidopsis thaliana*”

Workshop on Molecular Mechanisms Controlling Flower Development,

Alicante (ES). 29 May– 1 June 2022

"A REM-ARF complex controls inflorescence architecture determination in *Arabidopsis thaliana*", Francesca Caselli*, Veronica Maria Beretta, Sri Amarnadh Gupta Tondepu, Ross Sozzani, Martin M. Kater, Veronica Gregis. *Presenting author

Università degli Studi di Camerino (Unicam): Bachelor- Biosciences and Biotechnology

Camerino, Italy October 2016-October 2019 Final grade: 107/110

Thesis:” Analysis of Microbial community in the wastewater treatment plants of Marche”

Politechnika Lodzka (Lodz University of Technology): ERASMUS+- Exchange semester

Lodz, Poland. October 2018- February 2019

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RESEARCH EXPERIENCE Researcher (MSc Thesis): Laboratory of Plant Molecular Genetics

Supervisor: Prof: Veronica Gregis

Universita degli Studi di Milano, Italy;

October 2020- December 2021

Aim: my research involved characterizing the function of *REM* family genes in the Inflorescence architecture

Methodology my tasks comprised of genotyping and generation of single, double, and triple KO mutants using CRISPR Cas9 technology. Conducting RT-qPCR on different genotypes, vector cloning, Agrobacterium-mediated transformation, unravelling protein-protein and protein-DNA interactions using Y2H, ChIP and BiFC.

RESEARCH INTERESTS

- Molecular genetics
- Functional genomics (Forward and reverse genetics)
- CRISPR Cas genome editing.
- Plant biotechnology

LABORATORY SKILLS

- Gateway cloning
- Real-time qPCR
- Nucleic acid isolation (DNA, RNA), PCR and gel electrophoresis
- Agroinfiltration and Transformation
- Sequence analysis
- Plant genotyping and phenotypical analysis
- Plant crosses and propagation
- Protein-Protein interaction study: Yeast-2-Hybrid, BiFC
- Protein-DNA interaction analysis: ChIP
- R language and environment
- CCP4 crystallography software suite

OTHER SKILLS

- **Language Skills:** Telugu (Mother tongue), English (C1 level Unimi exam), Hindi, Italian (A2 level)
- **IT skills:** Microsoft Office package, R, CCP4.

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