CHAPTER 46

PLANT MOLECULAR BIOLOGY

Doctoral Theses

521. AGARWAL (Priyanka)

Regulation of Fruit Ripening in Tomato by Genetic Manipulation of Ethylene Signal Transduction.

Supervisor: Dr. Arun K. Sharma

Th 20226

Contents

- 1. Review. 2. Materials and methods. 3. Results. 4. Discussion.
- 5. Summary and conclusions. References and appendix.
- 522. BARANWAL (Vinay Kumar)

Identification of Genic Component That Influences Manifestation of Hybrid Vigour by Using Genome-Wide Transcriptome Analyses in Rice.

Supervisor: Dr. Sanjay Kapoor

Th 20131

Contents

- 1. Review of literatures: Understanding molecular bases of heterosis: Predictions from high throughput studies. 2. Material and methods. 3. Results 4. Discussions. References and appendix.
- 523. BREJA (Priyanka)

Functional Validation of Rice Homeodomain Genes (OsHOX14, OsBLH) and F-Box Gene (OsFBLD10) in Reproductive Development and OsHOX22 in Abiotic Stress Toleranc.

Supervisor: Prof. Jitendta P. Khurana

Th 20132

Contents

1. Review of literature on homedomain transcription factors. 2. Materials and methods. 3.Result and discussion. 4. Summary

and conclusions. References and annexure.

524. MITTAL (Dheeraj)

Insights Into Head Shock Factors in Rice (Oryza Sativa L.).

Supervisor : Prof. Anil Grover

Th 20130

Contents

1. Introduction. 2. Review of literature. 3. Materials and methods. 4. Results and discussion. 5. Summary and conclusions. Literature cited and appendix.