

## CHAPTER 35

### MEDICAL SCIENCES PHYSIOLOGY

#### Doctoral Theses

419. VASHISHT (Anirudh)  
**Behavior of Pulmonary Vagal Sensory Receptors with Myelinated Afferents During Free Radical Induced Airway Hyper-Reactivity and Its Modulation by Anti-Oxidants in Guinea-Pigs.**  
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#### *Abstract*

This investigation has made an attempt to determine the behavior of vagal sensory receptors mainly RARs and SARs during the oxidative stress induced airway hyperreactivity as observed in the case of asthma. The modulation of their activities by dietary antioxidants such as vitamin C and vitamin E has also been explored and for this study a guinea pig model of asthma is successfully developed using ovalbumin as an allergen.

#### *Contents*

1. Introduction. 2. Review of literature. 3. Hypothesis. 4. Aims and objectives. 5. Materials and methods. 6. Group design. 7. Results. 8. Discussion. 9. Summary and conclusions. 10 Future directions. 11. References. 12 Appendices.