

## CHAPTER 32

### MEDICAL SCIENCES BIOPHYSICS

#### Doctoral Theses

436. GUPTA (Rajeev)  
**Biophysical and Electrophysiological Studies on Interactions of Voltage Dependent Anion Channel and Bax Protein with MAP Kinase and Bif-1 and their Relevance to Mitochondria-Mediated Apoptosis.**  
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#### *Contents*

1. Introduction 2. Aims and objectives 3. In vitro studies of phosphorylation of mitochondrial brain vDAC by c-jun n-terminal kinase 3 (jnk3) and its effect on its gating properties 4. In vitro studies of bax, its phosphorylation by jnk3 and interaction with brain vDAC 5. In vitro studies of bax protein interaction with bif-1 protein 6. Final conclusions, discussion and future prospects. Bibliography and appendix.