

CHAPTER 33

MEDICAL SCIENCES BIOMEDICAL SCIENCES

Doctoral Theses

400. CHANDRA (Sudhir)
Analysis of Genetic Polymorphism in Renin-Angiotensin- Aldosterone Axis and Its Implication in Essential Hypertension.
Supervisor : Prof. Daman Saluja
Th 22656

Contents

1. Introduction 2. Review of literature 3. Methodology 4. Results. 5. Discussion 6. Summary and conclusions. References and annexures.

401. CECIL ANTONY. F
Regulation of L-type Voltage Gated Calcium Channel CACNAIS in Macrophages Upon Mycobacterium Tuberculosis Infection.
Supervisors : Prof. K. Natrajan and Dr. Yogendra Singh
Th 22651

Contents

1. Introduction 2. Review of literature 3. Rationale of the study aims and objectives 4. Materials and methods 5. Results 6. Discussion 7. Summary and conclusions. References and appendix.

402. GUPTA (Shilpi)
Regulatory Role of Cellular Transcription Factors AP-1 and NF-KB During HPV Mediated Tongue Carcinoma.
Supervisors : Prof. Daman Saluja and Dr. Alok C. Bharti
Th 22236

Contents

1. Introduction 2. Review of literature 3. Materials and methods 4. Results. 5. Discussion 6. Summary 7. Conclusion. Bibliography and annexures.

403. JAIN (Shruti)
Mechanism of Interaction of Dln80 With Chromatin and the Regulation of Development in Drosophila Melanogaster.
Supervisor : Prof. Vani Bhrahmachari
Th 22652

Contents

1. Introduction 2. Literature review 3. Materials and methods. 4. Results 5. Discussion 6. Summary. References and appendices.

404. JALOTA (Akansha)
Response to Chemotherapeutic Drugs in glial Tumor Cells Under Varying Oxygen Concentrations.
Supervisors : Dr. Ajay K. Yadav and Prof. Subrata Sinha
Th 22239

Contents

1. Introduction 2. Review of literature 3. Materials and methods 4. Section-I : Combination of 2-DG with various drugs 5. section-II : Combination of NS-398 with various drugs 6. Summary and conclusion. References and appendix.

405. MEHTO (Subhash)
Deciphering Macrophage Functions During Human Immunodeficiency Virus and Mycobacterium Tuberculosis Co-Infection.
Supervisor : Prof. K. Natarajan
Th 22653

Contents

1. Introduction 2. Review of literature 3. Aims and objectives. 4. Materials and methods 5. Results 6. Discussion 7. Summary and conclusion. References and appendix.

406. MENDIRATTA (Shweta)
Identification of the DNA Sequence Motif Recognized by Chromatin Remodeling Protein, Ino80 in the Genome and its Functional Implications
Supervisor : Prof. Vani Brahmachari
Th 22234

Contents

1. Introduction 2. Characterization of the DNA binding activity of hIno80 3. Transcriptional regulatory function of hIno80 4. Evaluation of in vivo interaction of hIno80 and analysis of the associated epigenetic modifications. References and appendix. List of publications.

407. MISHRA (Prashant Kumar)
Mining Genome of Chlamydia Trachomatis to Identify Vaccine Candidates.
Supervisors : Dr. Uma Chaudhry and Prof. daman Saluja
Th 22242

Contents

1. Introduction 2. Review of literature 3. Objectives 4. Objective1 : seroprevalence of chlamydial protein LigA 5. Objective 2 : Reverse vaccinology (IN SILICO) approach for identification of chlamydial vaccine candidate genes 6. Objective 3 : functional analysis of hypothetical proteins of chlamydia trachomatis : Bioinformatics based approach for prioritizing the targets 7. Conclusions 8. Summary. References and annexures.

408. MITTAL (Shruti)
Investigating Protein Folding and Aggregation Under Conditions Mimicking Intracellular Crowded Environment.

Supervisor : Dr. Laishram R. Singh
Th 22241

Contents

1. Review of literature 2. Effect of macromolecular crowding on protein structure and stability 3 Effect of macromolecular crowding on the aggregation of alpha-rich proteins 4. Effect of macromolecular crowding on the aggregation of beta-rich proteins. Summary, references and publications.

409. MOHSEN GHASEMI
Role of Chromatin Remodeling Protein Ino80 in Development of Drosophila Melanogaster : Interaction With the Cellular Memory Modules.
Supervisor : Prof. Vani Brahmachari
Th 22654

Contents

1. Introduction 2. Genetic interactions of dlno80 with multiple gene classes 3. Interaction of dlno80 with polycomb response elements (PREs) 4. Does dlno80 have pho-independent function? References and appendices.

410. RAY (R.S.)
Effect of cholinergic Receptor Blockade by Scopolamine and Mecamylamine on Neuropathogenesis of Global Cerebral Ischemia Reperfusion Injury.
Supervisor : Dr. Ajnu Katyal
Th 22237

Contents

1. Introduction 2. Review of literature 3. Aims and objectives 4. Materials and methods 5. Results 6. Discussion 7. Summary and conclusion 8. Bibliography.

411. S. ARTI
Mycobacterium Tuberculosis Mediated Regulation of Voltage Gated Calcium Channels : Implications in Key Defence Responses.
Supervisor : Prof. K Natarajan
Th 22240

Contents

1. Introduction 2. Review of literature 3. Rationale of the study 4. Aims and objectives 5. Materials and methods 6. Results 7. Discussion 8. Summary and conclusions. References, list of publications and appendix.

412. SHARMA (Monika)
3D QSAR and Virtual Screening for Development of Novel Histone Deacetylase (HDAC) Inhibitors.
Supervisor : Dr. Madhu Chopra
Th 22235

Contents

1. Introduction 2. Review of literature 3. Pharmacophore modeling and virtual screening for HDAC inhibitors 4. Pharmacophore modeling and virtual screening for

HDAC6 inhibitors 5. Docking studies of compounds from chapter 3 and chapter 4 6. COMFA and COMSIA studies on HDAC6 inhibitors using pharmacophore-Based Alignment. Summary. Appendix.

413. SIKKA (Manisha)
Investigation of the Combined Effect of Cyclooxygenase (COX-2) Inhibitor Etoricoxib and Cholecystokinin Receptor-2 (CCK-2) Antagonists on Pancreatic Cancer Cells.
Supervisor : Dr. Madhu Chopra
Th 22657

Contents

1. Introduction. 2. Review of literature. 3. Aims & objectives. 4. To study protein-protein interaction network to hypothesize the mechanism through which gastrin might affect the cox-2 expression. 5. Materials & methods. 6. Screening to etoricoxib (cox-2) inhibitor and cholecystokinin-2 receptor antagonists from literature and developed in lab for antiproliferative activity on pancreatic cancer cells. 7. To study the combined antiproliferative and apoptotic effects of etoricoxib and cholecystokinin-2 receptor antagonists on human pancreatic cancer cells. Summary, appendix and bibliography.

414. SONKAR (Subash Chandra)
Designing and Clinical Evaluation of NAAT Based Diagnostic Assays for Detection of Trichomonas Vaginalis.
Supervisor : Prof. Daman Saluja
Th 22233

Contents

1. Introduction 2. Review of literature 3. Materials and methods 4. Results 5. Discussion 6. Summary and conclusion 7. Bibliography.

415. VASHISHTA (Mohit)
Deciphering the Regulation of Programmed Death Ligand-1 (PD-L1) During Streptococcus Pneumoniae and Mycobacterium Tuberculosis Infection.
Supervisor : Prof. K. Natrajan
Th 22655

Contents

1. Introduction 2. Review of literature 3. Aims and objectives 4. Materials and methods 5. Results 6. Discussion 7. Summary and conclusions. References and appendix.

416. WAREPAM (Marina)
Effect of naturally Occurring Small Organic Molecules on Protein Folding and Function.
Supervisor : Laishram R Singh
Th 22238

Contents

1. Review of literature 2. osmolyte-assisted protein refolding 3. Effect of Osmolyte mixtures on protein folding and functional activity 4. Effect of N-Acetylaspartate on protein folding and aggregation. Summary, references and publications.