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**The role of Nerve Growth Factor (NGE) in allergic
and inflammatory Lung diseases**

Thesis

Submitted for Partial Fulfillment of Master Degree in Pediatrics

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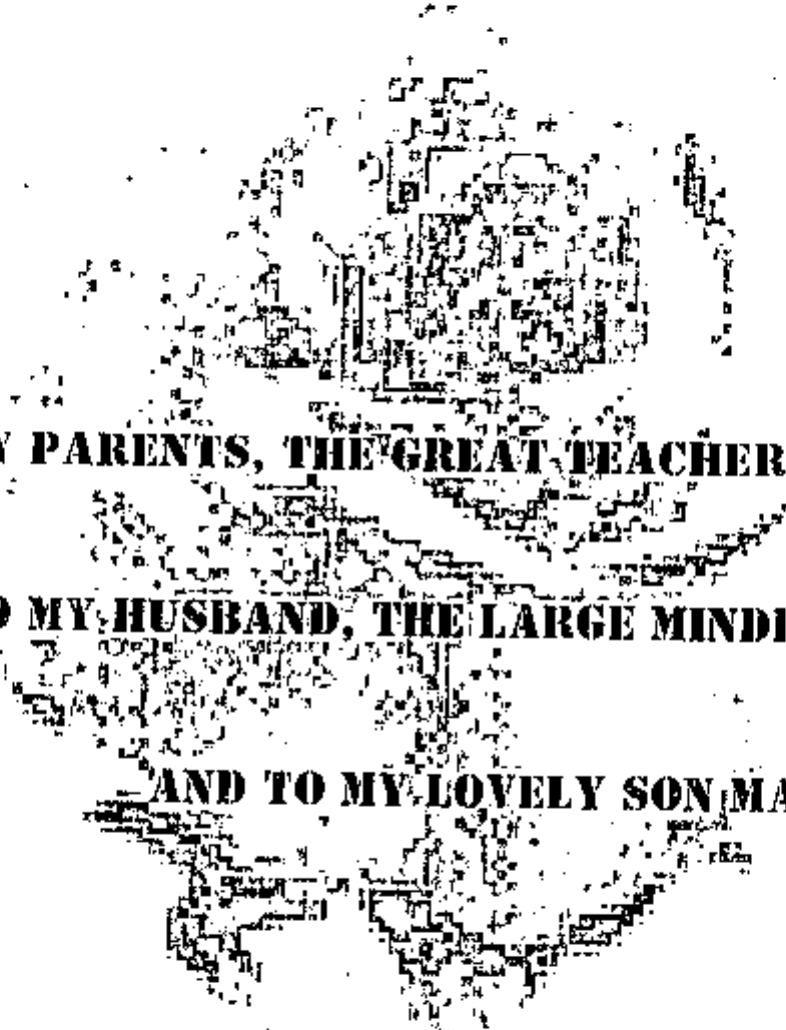
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TO MY PARENTS, THE GREAT TEACHERS .

TO MY HUSBAND, THE LARGE MINDED HEART .

AND TO MY LOVELY SON MARC.

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List of Abbreviations

- AHR : Airway Hyper- Responsiveness.
- APCs : Antigen Presenting Cells
- B A : Bronchial Asthma
- BADR : B₂ - Adrenergic Receptor
- BALF : Bronchoalveolar Lavage
- BCG : Bacille Calmette - Guerin
- BHR : Bronchial Hyper - Responsiveness
- C T : Computed Tomography
- CXR : Chest X - Ray
- DCs : Dendritic Cells
- DPT : Diphtheria - Pertussis - Tetanus Vaccine
- ECM : Extracellular Matrix
- EDTA : Ethylene Diamine Tetra Acetic Acid
- EJA : Exercise - Induced Asthma
- ESR : Erythrocyte Sedimentation Rate
- FEV₁ : Forced Expiratory Volume At 1 Second
- FiO₂ : Fractional Oxygen Concentration
- FVC : Forced Vital Capacity
- HIV : Human Immuno Deficiency Virus
- H.R : Heart Rate
- IFN : Interferon
- IgA : Immunoglobulin - A

- IgE : Immunoglobulin – E
- IL-1 : Interleukin – 1
- IL – 4 : Interleukin – 4
- IL – 5 : Interleukin – 5
- IL – 6 : Interleukin – 6
- MDI : Medium – Dose Inhalation
- mRNA : Messenger Ribonucleic Acid
- NAEPP : Natinal Asthma Eduction And Preventive Program
- NGF : Nerve Growth Factor
- Nk cells : Natural Killer Cells
- Pa CO₂ : Arterial Partial Pressure Of Carbon Dioxide
- PEFR : Peak Expiratory Flow Rate
- PNS : Peripheral Nervous System
- P₇₅ NTR : P₇₅ glycoprotein Receptor of NGF
- PO₂ : Partial Pressure Of Oxygen
- R.R : Respiratory Rate
- RSV : Respiratory Syncytial Virus
- RT. PCR : Reverse Transcriptase. Polymerase Chain Reaction
- T.B : Tuberculosis
- Tcm : Technetium – 99
- Th₁ : T. Helper cell type 1
- Th₂ : T. Helper cell type 2
- TLC : Total Lung Capacity
- TNF : Tumour Necrosis Factor

- TrkA : Tyrosine kinase A receptor
- V C : Vital Capacity
- VIP : Vasoactive Intestinal Peptide
- WHO : World Health Organisation
- Xe : Xenon - 133