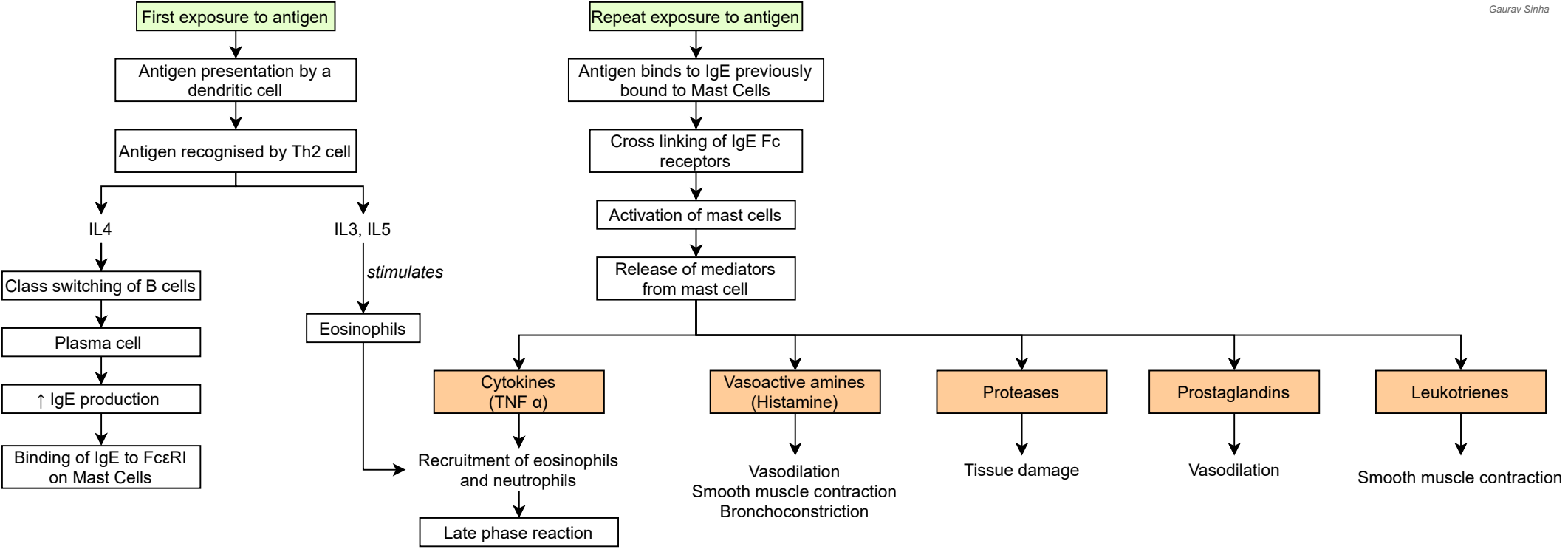
Gaurav Sinha
First exposure to antigen
Antigen presentation by a dendritic cell
Antigen recognised by Th2 cell
IL4
IL3, IL5
Class switching of B cells
Plasma cell
↑ IgE production
Binding of IgE to FcεRI on Mast Cells
stimulates
Eosinophils
Recruitment of eosinophils and neutrophils
Late phase reaction
Repeat exposure to antigen
Antigen binds to IgE previously bound to Mast Cells
Cross linking of IgE Fc receptors
Activation of mast cells
Release of mediators from mast cell
Cytokines (TNF α)
Vasoactive amines (Histamine)
Proteases
Prostaglandins
Leukotrienes
Vasodilation
Smooth muscle contraction
Bronchoconstriction
Tissue damage
Vasodilation
Smooth muscle contraction