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# **Basophils as a potential therapeutic target in cancer**

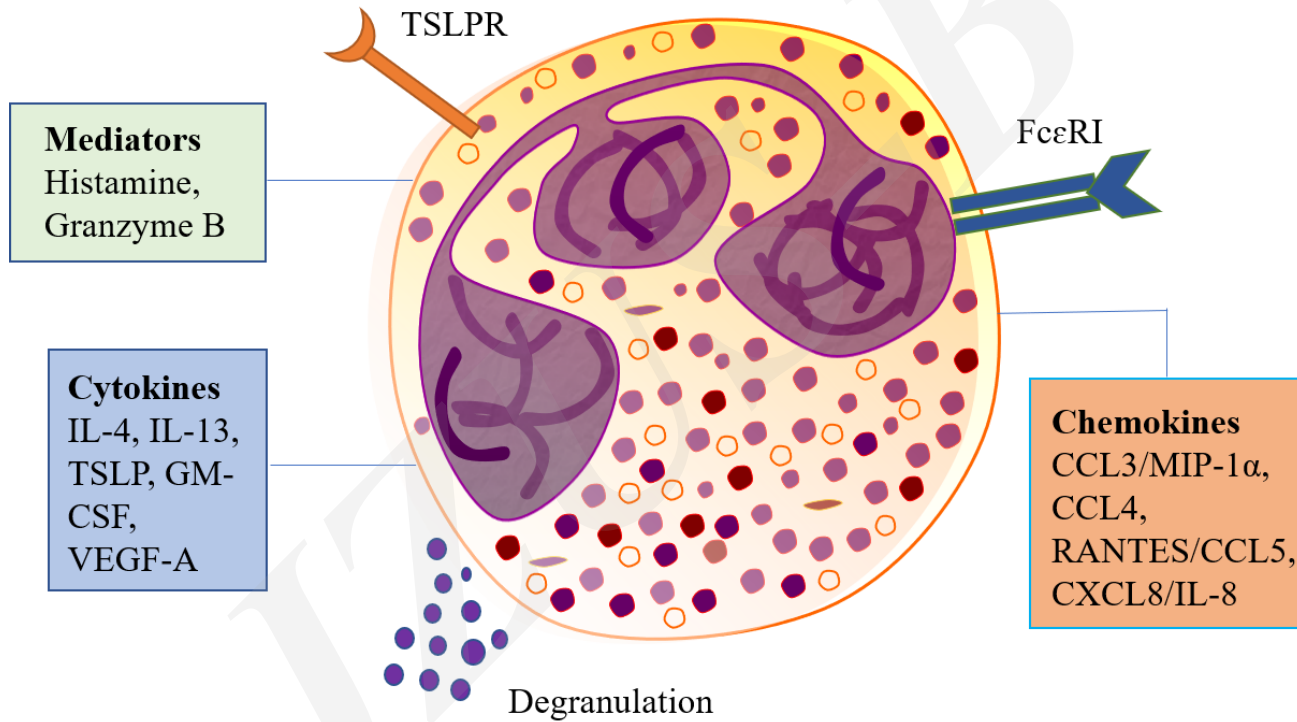
**Key words: Basophil; Cancer; Cytokine; Chemokine; Tumor  
microenvironment (TME)**

# ***Summary***

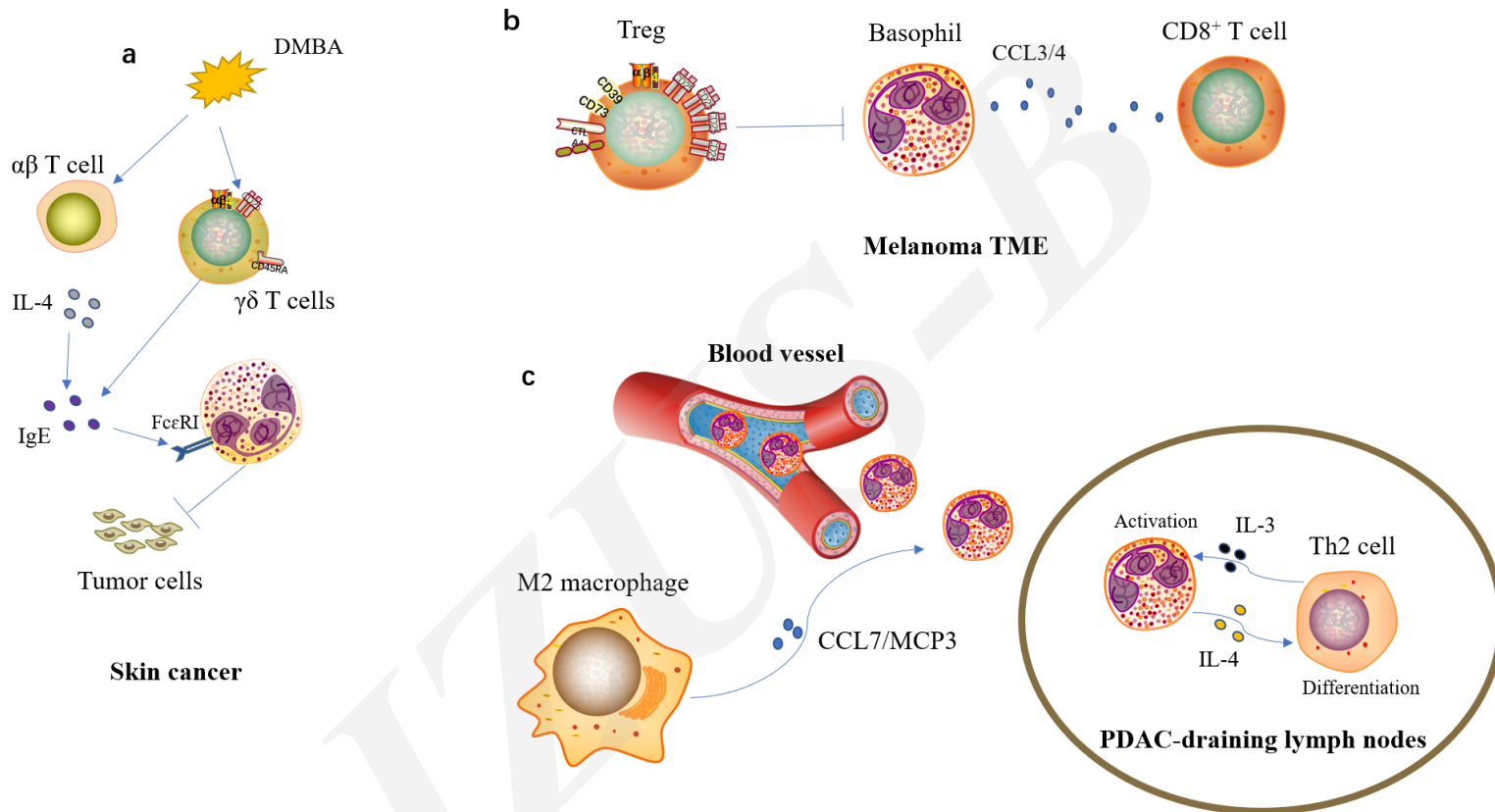
**This review mainly focused on the role of basophils and their secretions in the following aspects:**

- **Biology of basophils**
- **Receptors and ligands in basophils**
- **Basophils-derived cytokines with cancer**
- **Basophils-derived chemokines with cancer**

# Basophil



**Surface and secreted molecules of basophils**



**Mechanisms of recruitment and functions of basophils in tumor microenvironment**

# ***Conclusions and Challenges***

- **Basophils participate in allergic disease, parasitic infection and tumor progression**
- **The mechanism of activation, recruitment and signaling of basophils in tumor microenvironment are varying**
- **Basophils might be a potential therapeutic target for cancers**
- **More preclinical and clinical investigations are required and novel technologies are anticipated**