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## ABSTRACT

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# Brief study of the immune system and a large sea of pathogens and other things side A

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### ABSTRACT

And I will destroy any man who dares to abuse my trust, I promise that you will be mine Queen (1973) We begin and brief study with this song to illustrate in a simple and interesting way because

immunology itself is something extremely interesting the flagship the captain this boat will be the book cell and molecular immunology by Abul K Abbas, Andrew.

**Key Words:** Th1. Th2;cellular response; specific response.

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### INTRODUCTION

Lichtman and Shiv Pillai we will start from a hypothetical situation of a region injured by a piercing instrument that penetrates the skin layers and skeletal muscle tissues based on this arrangement as we will discuss in this case DAMPs Molecular Patterns Associated with Damages and PAMPs molecular patterns associated with pathogens in this part of the study we stick to pathogens linked to amino acids and their formation in chains of proteins TH1 and TH2 that would be mechanisms of intracellular aggressions such as viruses and microbacteria and mechanisms that attack extracellular cells like bacteria in the hypotonic situation ethics that we comment on an instrument any sharp drill when the layers of the cells the phospholipid layers are injured and all extracellular content moves to the extracellular medium begins with a response called innate or cellular that is given by immune cells intact as macrophages dendritic cells are very important in the presentation of phagocyte antigens also obviously to a perception of the central nervous system pain and a conscious state this information reaches the cerebral cortex pain and is detected by nociceptors in response the central nervous system releases substance P in this initiation of injury the cells begin an inflammatory process and the damaged cell members these phospholipids generate the cascade of arachidonic acid in this process if this injury is resolved everything is solved with the first phase of defense which is the innate or cellular system in case of intra or extracellular pathogens extracellular remains and starts a process of aggression to

the organism starts the second part of the defense that is acquired that has specific responses for extracellular and intracellular pathogenic organisms the complementary immune system we did not address in this work this article is dedicated to my esteemed professors of the medical school São Judas Tadeu Cubatão.

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