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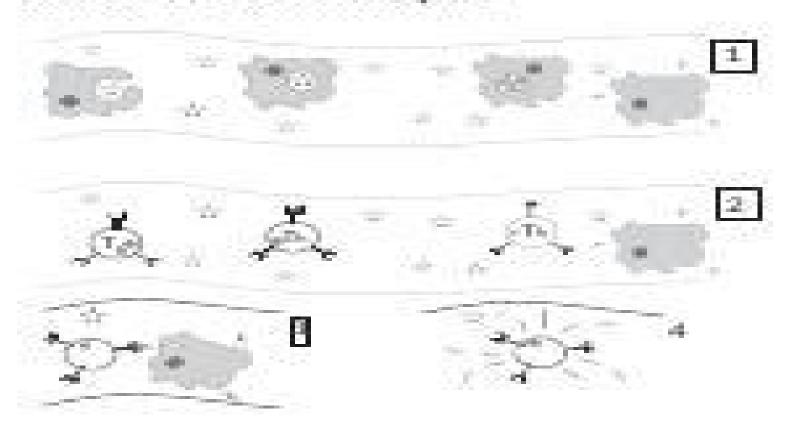
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# Model 1 - Cell Mediated Response



# Pogil Immune In Model1 A Pathogen

Geanncarlo Lugo-Villarino, Céline Cougoule, Etienne Meunier, Yoann Rombouts, Christel Vérollet, Luciana Balboa

#### Pogil Immune In Model1 A Pathogen:

The Mononuclear Phagocyte System in Infectious Disease Geanncarlo Lugo-Villarino, Céline Cougoule, Etienne Meunier, Yoann Rombouts, Christel Vérollet, Luciana Balboa, 2019-10-04 The Mononuclear Phagocyte System MPS of vertebrates is composed of monocytes macrophages and dendritic cells Together they form part of the first line of immune defense against a variety of pathogens bacteria fungi parasites and viruses and thus play an important role in maintaining organism homeostasis The mode of transmission type of replication and mechanism of disease causing differ significantly for each pathogen eliciting a unique immune response in the host Within this context the MPS acts as both the sentinel and tailor of the immune system As sentinels MPS cells are found in blood and within tissues throughout the body to patrol against pathogenic insult The strategy to detect microbial non self relies on MPS to recognize conserved microbial products known as pathogen associated molecular pattern PAMPs PAMPs recognition represents a checkpoint in the response to pathogens and relies on conserved pattern recognition receptors PRRs Upon PRR engagement MPS mount a cell autonomous attack that includes the internalization and compartmentalization of intracellular pathogens into toxic compartments that promote destruction In parallel MPS cells launch an inflammatory response composed of a cellular arm and soluble factors to control extracellular pathogens In cases when innate immunity fails to eliminate the invading microbe MPS serves as a tailor to generate adaptive immunity for pathogen eradication and generation of memory cells thus ensuring enhanced protection against re infection Indeed MPS cell functions comprise the capture process migration and delivery of antigenic information to lymphoid organs where type 1 immunity is tailored against intracellular microbes and type 2 immunity against extracellular pathogens However this potent adaptive immunity is also a double edge sword that can cause aberrant inflammatory disorders like autoimmunity or chronic inflammation For this reason MPS also tailors tolerance immunity against unwanted inflammation Successful clearance of the microbe results in its destruction and proper collection of debris resolution of inflammation and tissue healing for which MPS is essential Reciprocally as part of the evolutionary process taking place in all organisms microbes evolved strategies to circumvent the actions bestowed by MPS cells Multiple pathogens modulate the differentiation maturation and activation programs of the MPS as an efficient strategy to avoid a dedicated immune response Among the most common evasion strategies are the subversion of phagocytosis inhibition of PRR mediated immunity resistance to intracellular killing by reactive oxygen and nitrogen species restriction of phagosome maturation modulation of cellular metabolism and nutrient acquisition regulation of cell death and autophagy and modulation of pro inflammatory responses and hijacking of tolerance mechanisms among others. The tenet of this eBook is that a better understanding of MPS in infection will yield insights for development of therapeutics to enhance antimicrobial processes or dampen detrimental inflammation for the host's benefit We believe that contributions to this topic will serve as a platform for discussion and debate about relevant issues and themes in this field Our aim is to bring expert junior and senior scientists to

address recent progress highlight critical knowledge gaps foment scientific exchange and establish conceptual frameworks for future MPS investigation in the context of infectious disease Macromolecular Structure Underlying Recognition in **Evolution of Immune System** Innate Immunity Uttara SenGupta, Uday Kishore, Maha Ahmed Al-Mozaini, 2018-07-09 Against Diverse Antigens Jiming Sheng, 2021 The immune system evolves across the host's lifetime to protect against the wide array of threats in nature While the immune system is capable of evolving and adapting to a single antigen Ag it becomes a challenging task to defend against diverse antigenic targets including mutants of the same pathogen or a wide spectrum of pathogen species First the rapid intra host diversification of highly mutable pathogens such as human immunodeficiency virus HIV or hepatitis C virus HCV creates a coevolutionary arms race with the immune system As a result viruses persist into a chronic infection in most subjects and are only cleared in rare cases In addition The vaccination trials so far to elicit broadly neutralizing antibodies bnAbs against highly mutable viruses have met with failure Second the immune system has to allocate its finite amount of adaptive immune cells against the wide spectrum of pathogens in the environment As memory cells accumulate from each pathogen encounter the host s immune repertoire gradually becomes skewed more adaptive immune cells are dedicated to the frequent pathogens while fewer are reserved for the rare pathogens. The skewed repertoire in the elderly has been correlated with immune risk phenotype and a chronic inflammatory response even in the absence of pathogens but whether there is a mechanistic connection remains unknown My dissertation aims to address the following questions regarding the evolution of the immune system against diverse antigenic targets 1 What are the mechanisms and deciding factors behind the distinct coevolutionary outcomes observed in different subjects 2 What makes a viable vaccine design strategy to guide immune system evolution towards bnAbs 3 What are the side effects of a skewed immune repertoire as a result of adapting to different pathogens encountered during hosts lifetime Also how can human intervention alleviate these side effects My dissertation shows that 1 different coevolutionary outcomes are decided by the timing and efficacy of successive narrow and broad antibody Ab responses which in turn are determined by the conservation level and initial diversity of Ag 2 A viable vaccine strategy to elicit bnAbs should balance suppression of strain specific B cells and preserving cross reactive B cells The corresponding optimal selection strength should increase in time as driven by the evolution of B cell cross reactivity 3 Mediated by adaptive innate feedback repeated pathogen encounters during host lifetime and resulting memory inflation may trigger a fragility in which any encounter with a novel pathogen will cause the system to irreversibly switch from health to chronic inflammation CI In addition the onset of CI strongly depends on the history of encountered pathogens the timing of onset can be delayed drastically when the same set of infections is encountered in a specific order Orchestration of an Immune Response to Respiratory Pathogens Andrea Sant, Steven Varga, 2019 This eBook is a collection of articles from a Frontiers Research Topic Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series they are collections of at least ten articles all centered on a particular subject

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