



# Amphioxus Immunity: Tracing the Origins of Human Immunity

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## Amphioxus Immunity: Tracing the Origins of Human Immunity

Amphioxus Immunity: Tracing the Origin of Human Immunity covers a remarkable range of information about Amphioxus and its evolutionary context. This compilation of what is currently known about Amphioxus, with a sharp focus on its immune system, includes 13 topics, such as:

- Amphioxus as a model for understanding the evolution of vertebrates
- basic knowledge of immunology
- immune organs and cells of amphioxus
- a genomic and transcriptomic view of the Amphioxus immunity
- pattern recognition system in Amphioxus
- transcription factors in Amphioxus
- the complement system of Amphioxus
- the oxidative burst system in Amphioxus
- immune effectors in Amphioxus
- lipid signaling of immune response in Amphioxus
- apoptosis in amphioxus; primitive adaptive immune system of Amphioxus
- and future research directions

This valuable reference book is loaded with information that will be useful for anyone who wishes to learn more about the origin of vertebrates and adaptive immunity.

- Provides new evidence on the origin of the adaptive immune system, the evolution of innate immunity, and evolution-stage specific immune defense mechanisms
- Not only presents the cells and molecules involved in the adaptive immune response in Amphioxus, but also characterizes the origination and evolution of the gene families and pathways involved in innate immunity
- Includes much pioneering work, from the molecular, genomic, and cellular to the individual level

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