



## **Biological DNA Sensor: Chapter 2. The PYHIN Family of Molecules and their Functions Sensing dsDNA**

*Sivapriya Kailasan Vanaja, Vijay A.K. Rathinam, Katherine A. Fitzgerald*

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The innate immune response serves as the first line of defense against microbial infections by detecting pathogen-associated molecular patterns through germline-encoded pattern recognition receptors. Proteins of the PYHIN family have gained substantial research focus in recent years as central mediators of innate immune responses induced by cytosolic microbial DNA. Sensing of DNA by PYHINs typically leads to activation of inflammasomes and/or type I interferon responses that are crucial for host defense against invading pathogens. Certain members of the family are also involved in the development of autoimmune diseases as well as transcriptional regulation. Although the generation of knockout mice strains has unraveled the essential role of PYHIN proteins such as AIM2 in the development of antimicrobial innate immune responses, the exact biological role of several other PYHIN family members remains to be understood. This chapter reviews the important discoveries on PYHIN proteins and their role in microbial defense, autoimmunity and transcriptional regulation.

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