

# The All Encompassing Importance of Innate Immune Receptors

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Innate immune receptors are at the forefront of host defense and these have expansive roles in cancer immunology, infectious diseases, vaccination, the microbiota and autoimmune disorder. We will discuss some of our recent studies on the roles of these receptors in both innate and adaptive immunity, and our use of human or humanized systems to study the interplay between innate immune receptors and their impact on such diseases. We will provide examples of the use of "humanized" mice, human primary organ tissue cultures and studies in humans.