

Mechanisms of Innate Immunity: Bridging the Gap between Host Defense and Immune Regulation

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Introduction

einna eimm ne emi heb d' ima defen emechani m again ah gen, iding immedia e' •cci n h • gha ange f cell la and m lec la e ne. Unlike he ada i eimm ne em, hich e i e ime •m • n a eci c e ne, inna eimm ni •e a e i 1, ec gni ing and e nding • a b ad a a infec i • agen [1]. I c n i f h ical ba ie , ch a he kin and m c • al memb ane, a ell a d i • imm ne cell , incl ding mach hage , dend i ic cell , ne • hil , and na al kille (NK) cell . e e c m nen • k c llab • a i el • de ec , eng lf, and elimina e ah gen hile ini iaing in amma⁴ • e ne ha ale and ec i • he imm ne cell • i e finfec i n [2]. Cen al • he f nc i n finna e imm ni i he ec gni i n f ah gen-a cia ed m lec la a e n (PAMP), hich a ec ne ed m lec la c e f• nd n ah gen . Imm ne cell • e a e n ec gni i n ece • (PRR) ha bind • he e PAMP, igge ing a e ie f in acell la ignaling ca cade [3]. i ec gni i n n • nl aci a e immedia e defen e mechani m b al • in ence he de el • men f he ada i e imm ni [4]. H • e e , he inna e imm ne e ne e m be nel eg la ed • e en e ce i i in amma • di ea e, a imm ne di • de , and inc ea ed ce ibili • infec i n [5]. Recen ad ance in imm n d g, ha e e ealed 'he c m le i f inna e imm ne eg la i n, em ha' ing he le f a i • ignaling a h a and eg la • m ec le , cha c kine and chem kine . i i n 'ica ene • ken e ha heimm ne e ne i a • ia e • he he ale el, e cci el balancing he need f • a id defen e i h he nece i f main aning i e h me • a i [6]. Unde anding he mechani m⁹ finna eimm ni i ci ical n • nl f • c m ehending h • he b d defend i elf again ah gen b ⁹ al • f• de elp ing he a e ic ⁹ a egie aimed a m d la ing imm ne e ne i a • ia e

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