
Bacterial Activation Type Interferons

type i interferons in bacterial infections: taming of ... - type i interferons in bacterial infections: taming of myeloid cells and possible implications for autoimmunity ... this "m1-type" activation is associated with increased expression **the roles of type i interferon in bacterial infection** - marize the effect of type i ifns on specific bacterial infections and highlight the effector mechanisms regulated by type i ifns in an attempt to elucidate new avenues to understanding their role. introduction the innate immune system is the first line of defense against invading bacteria. germline-encoded patternrecognition recep- **the cytosolic sensor cgas detects mycobacterium ...** - led to robust csp activation in wild-type bmdms as measured by both protein and transcript levels. this response was completely blocked in cgas /and sting macrophages (figures 1a and 1b), similar to infection of wild-type macrophages with an esx-1 mutant, which fails to induce the csp (manzanillo et al., 2012). **immunomodulatory functions of type i interferons** - response to bacterial ligands and their role in inflamma-some activation. in addition, we discuss the role of type i ifns in intestinal homeostasis and in inflammatory and autoimmune diseases such as coeliac disease, psoriasis, multiple sclerosis and cancer. type i ifn production and signalling induction of type i ifns by bacterial ligands. **type i role of type i interferons in inflammasome activation ...** - role of type i interferons in inflammasome activation, cell death, and disease during microbial infection ... malireddi and kanneganti type i interferons in microbial infection. and medzhitov, 2006a; lippmann et al., 2011). by contrast, monroe et al. have demonstrated that. ... β increases lung bacterial loads, **type i interferons and microbial metabolites of tryptophan ...** - type i interferons and microbial metabolites of tryptophan ... aldehyde (iald), or the bacterial enzyme tryptophanase. in individuals with ms, the circulating ... ifnar1 activation triggers jak1/tyk2-dependent phosphorylation of stat1, which dimerizes with phosphorylated stat217. the stat1/stat2 heterodimer assembles with irf9 to form a **type i interferons in anticancer immunity - roswellpark** - type i interferons (ifns) were first discovered more than half a century ago as the factors underlying viral interference — that is, the ability of a primary viral infection to render cells resistant to a second distinct virus 1. type i ifns comprise ifn α proteins (a class of homologous pro **type 1 interferon dynamics in bacterial infection** - role in the activation of irf-1 gene transcription by interferon-alpha. j biol chem 271(10): 5790-5794. 6. decker t, müller m, stockinger s (2005) the yin and yang of type i interferon activity in bacterial infection. nat rev immunol5(9): 675-687. 7. noppert sj, fitzgerald ka, hertzog pj (2007) the role of type i interferons in tlr responses. **type i interferons in bacterial infections: a balancing act** - type i interferons in bacterial infections: a balancing act pavel kovarik*, virginia castiglia, masa ivin and florian ebner max f. perutz laboratories, university of vienna, vienna, austria defense against bacterial infections requires activation of the immune response as well as timely reestablishment of tissue and immune homeostasis. **the bacterial pathogen listeria monocytogenes and the ...** - the bacterial pathogen listeria monocytogenes and the interferon family: type i, type ii and type iii interferons olivier dussurget 1,2,3,4 *, hélène bierne 1,2,3† and pascale cossart 1,2,3 **type i interferons produced by dendritic cells promote ...** - type i interferons produced by dendritic cells promote their phenotypic and functional activation maria montoya, giovanna schiavoni, fabrizio mattei, ion gresser, filippo belardelli, persephone borrow, and david f. tough resting dendritic cells (dcs) are resident in most tissues and can be activated by environmental stimuli to mature into po- **activation of type iii interferon genes by pathogenic ...** - activation of type iii interferon genes by pathogenic ... bacterial infections trigger the expression of type i and ii interferon genes but little is known about their effect on type iii interferon (ifn-l) genes, whose products play important roles in epithelial innate immunity against viruses. ... type iii interferons (ifn-iii or ifn-ls) are ... **type i interferons protect from toll-like receptor 9 ...** - type i interferons protect from toll-like receptor 9-associated liver ... is regulated by toll-like receptors (tlr). activation of tlr9 induces type i interferons (ifns) via the interferon regulatory factor (irf)-7. we investigated the roles of ... is present in bacterial dna and also in dna from apo- **diverse intracellular pathogens activate type iii ...** - the expression of type iii interferons, a class of interferons that has tissue-specific roles in antiviral immunity 1. we found that rlr- mediated type iii interferon expression can be induced by diverse viruses, including reovirus, sendai virus (sev) and dengue virus (denv) as well as the bacterial pathogen listeria monocytogenes. we identi- **dissection of a type i interferon pathway in controlling ...** - activation directly or indirectly stimulates antimicrobial responses that function either cell- ... type i interferons (ifn α/β). this response is induced by tlr3, 4, 7, and 9, as well as tlr2 ... to inject bacterial effector molecules into the host cytosol that orchestrate the creation of a

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