Abstract

Antigen-presenting cells (APCs) are critical players in the lung's immune response, bridging innate and adaptive immunity. This overview examines the primary types of APCs found in the pulmonary environment-dendritic cells, macrophages, and B cells-and their unique functions in antigen recognition, processing, and presentation. The article explores how these cells interact with T cells to initiate and regulate immune responses, as well as their roles in maintaining lung homeostasis. Furthermore, it highlights the implications of APC function in various respiratory diseases, including asthma, chronic obstructive pulmonary disease (COPD), and lung infections. Understanding the $\{\{1\} \land \{1\} \land \{1\}$

Introduction

e face be ca ee e e С d e d T e d a ce a d a e be ee b Ce (APC), ce a e a e e e ce a d d a e e de de d c ce ae, ad Bce ac , eac a d ca ab e . De d c ce aead ee a ab e, a e e . Mac e b d e f defe e, c b e e . Mea a e a d e e a f ada e e ed f e a b d d c B ce . a ec e e a APC, e c T ce ac a a d [1].

e c e f ea , APC a e a c e e e a ce a d be ca ef f APC f c ba a ced. D a ca ead e de e f a a deae, c a a a, c c b d ea e (COPD), a d aad fec e e . U de a d f APC be c e ca e e a f de e a e ed eae c e e e ed a a e a c e a a eac a e e c da e e APC f С a ec a , a d a d d ea e. B e ea a ce f e e ce а e а a d e a a b b d e e a e c a е e е ee c ed e a [2].

APC ada d e a e e ed e ec c a e e e ed b a ed a e ed e d , a e e ace, a a d a d e de ec e d e e e a c e a ee APC ada c a T ce e ce e (NK) ce, a d T ce de e.I add APC a e a e e ed e С e a df d a ce.APC ed ca e T ce e a a ее e ce

*Corresponding author: Maria Leon, Department of Cell Biology, University of Barcelona, Spain, E-mail: Leon.maria@gmail.com

Received: 01-Nov-2024, Manuscript No: cmb-24-149042; Editor assigned: 04-Nov-2024, PreQC No: cmb-24-149042(PQ); Reviewed: 18-Nov-2024, QC No: cmb-24-149042; Revised: 25-Nov-2024, Manuscript No: cmb-24-149042(R); Published: 30-Nov-2024, DOI: 10.4172/1165-158X.1000357

Citation: Maria L (2024) Antigen-Presenting Cells in the Lung: A Comprehensive Overview. Cell Mol Biol, 70: 357.

Copyright: © 2024 Maria L. This is an open-access article distributed under the

e f APC ce e, e e c ea e e . S e e a ed a a APC ac e a ce, b d a c ec е d f f а e e а ea e f a e d ea e [5].

Discussion

f a (APC) e e a ce de С e b e defe ea d d C e face be ee e e e а e e ece a e a e ed e e e, ba a c eed f e e a ce ec a a a e a be d a e e a e a ce e a С a d ea e, е e e d e f APC f

b APC aee e ac e a de ca e e be ee e a ce a d . I ea ec a a e e e e a ce a e ece a e a df d . De d e c a e ce b ce e e e e a T ce e e e e d e ac f APC ca ead e ce 2 e a da eac d U de a d e a a c e e a a dcae APC be a ca f de e c e С a e e d cd ea e [6]. e a e

e d e b f APC e e e e -eac ec a ed С . F a ce, e ab f c a de d c ce f d de d ac a e a e T ce e e a ac a defe e. ce ec a a a e a ab APC e ac e ce e e ce e e ea c d a d e e e a ec d APC e ac e e ca e a dc d [7].

еc b fAPC e a e f e d ea e a, COPD, a d f С a fec d. I a a, e, e a ced ac f de d a d e a c ce ac a e aeacce f , ead ca e a c e e a c ac a e ca ead e de e e de a e de a d fd eae ec a b a e a e a e e .F a ce, a e ec c APC f С С d c a COPD [8]. a e a e e

f APC f d a С e e e f d ea e. С e e a a e e ed a e a c e e e С e f APC c C e c e f fec e ab e a c f APC e a e T ce d ac С e ead be e d ea e aa d be c . M e c е, f de d ad a ce e c e e a a acc e, a e be e e a e e e f APC ec e e a f APC a a e b a eae c [9]. e e

A de a d f APC e e e, e e a e a a ea a a f e e a . e e f e c b e

f e APC f c a d С a a APC be a a e c f e ea c Add , e c da a de APC add ee e d ea e ac а e cde e a e a С e e e e e a d ca e ce a e ce a e b a dd ea e. B a d c ae e f e e ea f e d ea e, a e a e ca e a d

Conclusion

(APC) a e , a e - e e ce e e c c a e b e d c e ba a ce ea cea d a f ce e e e ec e defe ea a ea e d f APC -de d ae, ad B е е c ce ac b e e e ce ce -eac e D e a, COPD, a d fec eed f e ed ae e.A e ea c С e a e ca e d APC a f de e e e ca e а e a е a ce ec е e e baa ce d a e ead ed e f a ca c С de

Acknowledgement

N e

Con ict of Interest

N e

References

- 1. Sangeetha A, Parija SC, Mandal J, Krishnamurthy S (2014) Clinical and {緣[|ǎi[|[*緣æ|Å]][,|^•Á[从•@i*^|[•i•檢]从@iiå!^}. J Health Popul Nutr 32: 580.
- Üæ}łàæ/łütliðæ||æ|k⊤Tὑtlivæ|^àikTtliv([*¹•@æ,^kTÜk)ç6€inkIncreased isolation and characterization of Shigella sonnei obtained from hospitalized children in Tehran, Iran. J Health Popul Nutr 26: 426.
- Zhang J, Jin H, Hu J, Yuan Z, Shi W, Yang X, et al. (2014) Antimicrobial resistance of Shigella spp. from humans in Shanghai, China, 2004–2011. Diagn Microbiol Infect Dis 78: 282–286.
- 4. Wei J, Goldberg MB, Burland V, Venkatesan MM, Deng W, et al. (2003) Ô[{]|^c^\.*^}[{^\...^*^}&^\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\...\å\..
- Kuo CY, Su LH, Perera J, Carlos C, Tan BH, et al. (2008) Antimicrobial susceptibility of Shigella isolates in eight Asian countries, 2001-2004. J Microbiol Immunol Infect; 41: 107-11.
- 6. Gupta A, Polyak CS, Bishop RD, Sobel J, Mintz ED (2004)