

# ***CURRICULUM VITAE***

**Name:** Esmaeil Mortaz

**Nationality:** Iranian

**Date of Birth:** 20-02-1968

**Home Address:** Tehran-Iran

**Marital status:** Married with 2 children

**Education:**

2000- 2005      PhD in clinical Immunology (Utrecht Medical University, The Netherlands)

**Thesis title:** A molecular approaches to role of mast cells in aspirin induced Asthma

## **EMPLOYMENT HISTORY**

**2005-2008**      Research Fellow on mechanisms of cigarette smoke activation of COPD macrophages (Utrecht University)

TIP pharma Institute; Post Doc 2008-2010 – Utrecht- The Netherlands

**2010-2014**      National Research Institute of Tuberculosis and Lung Diseases (NRITLD), Shahid Beheshti University of Medical Sciences, Tehran, Iran

**2014-2015**      ERS Research Fellowship on water-pipe smoking and lung disease (Imperial College London)

**2015-Present**    Department of Immunology, School of Medicine, Shahid Beheshti University of Medical Sciences, Tehran, Iran

**Current position:**      Academic member of Clinical Immunology, National research institute tuberculosis and lungs disease (NRITLD), Masih Daneshvari Hospital

**Working Address:**

1- Department of Immunopharmacology, Utrecht University, The Netherlands

2-Airways Disease Section, Faculty of Medicine, National Heart and Lung Institute, Imperial College London, London, United Kingdom.

3- Laboratory of Translational Immunology, Department of Respiratory Medicine, University Medical Centre Utrecht, Utrecht, Netherlands.

## **HIGHER EDUCATION:**

PhD in Immunology and Molecular biology

## **Fellowships/prizes/standing:**

ERS long period fellowship for 18 months at Dept. Respiratory Cell & Molecular Biology and Head of the Molecular Cell Biology Group at the National Heart & Lung Institute, Imperial College London University, and London, United Kingdom

## **Society Memberships:**

ERS, ATS, AAI

## **Current Research Interests:**

Role of exosomes in pathogenesis of Tuberculosis and CF patients

**Recent Research papers** (out of 89 original articles and 29 reviews since 2005, H Index = 25):

## **PUBLICATIONS IN REFERRED JOURNALS**

### **2019**

Alipoor SD, Tabarsi P, Varahram M, Movassaghi M, Dizaji MK, Folkerts G, Garssen J, Adcock IM, **Mortaz E**. Serum Exosomal miRNAs Are Associated with Active Pulmonary Tuberculosis. Dis Markers. 2019;11;2019:1907426.

Farrokhpour M, Kiani A, **Mortaz E**, Taghavi K, Farahbod AM, Fakharian A, Kazempour-Dizaji M, Abedini A. Procalcitonin and Proinflammatory Cytokines in Early Diagnosis of Bacterial Infections after Bronchoscopy. Open Access Maced J Med Sci. 2019 Mar 27;7(6):913-919

**Mortaz E**, Azempour E, Mansouri D, Tabarsi P, Ghazi M, Koenderman L, Roos D, Adcock IM. Common Infections and Target Organs Associated with Chronic Granulomatous Disease in Iran. Int Arch Allergy Immunol. 2019 Mar 22:1-12.

Asadirad A, Hashemi SM, Baghaei K, Ghanbarian H, **Mortaz E**, Zali MR, Amani D. Phenotypical and functional evaluation of dendritic cells after exosomal delivery of miRNA-155. Life Sci. 2019; 6. pii: S0024-3205(19)30005-0.

### **2018**

Asef A, **Mortaz E**, Jamaati H, Velayati A. Immunologic Role of Extracellular Vesicles and Exosomes in the Pathogenesis of Cystic Fibrosis. Tanaffos. 2018;

17(2):66-72. Review.

Kiani A, Abedini A, Adcock IM, Mirenayat MS, Taghavi K, **Mortaz E**, Kazempour-Dizaji M. Association Between Vitamin D Deficiencies in Sarcoidosis with Disease Activity, Course of Disease and Stages of Lung Involvements. J Med Biochem. 2018; 1; 37(2):103-109. doi: 10.1515/jomb-2017-0041. eCollection 2018 Apr.

Takbiri Osgoei L, Parivar K, Ebrahimi M, **Mortaz E**. Nicotine Modulates the Release of Inflammatory Cytokines and Expression of TLR2, TLR4 of Cord Blood Mononuclear Cells. Iran J Allergy Asthma Immunol. 2018 ; 12; 17(4):372-378

**Mortaz E**, Amani S, Mumby S, Adcock IM, Movassaghi M, Folkerts J, Garssen J, Folkerts G. Role of Mast Cells and Type 2 Innate Lymphoid (ILC2) Cells in Lung Transplantation. J Immunol Res. 2018; 30;2018:2785971. doi: 10.1155/2018/2785971. eCollection 2018.

**Mortaz E**, Sarhifynia S, Marjani M, Moniri A, Mansouri D, Mehrian P, van Leeuwen K, Roos D, Garssen J, Adcock IM, Tabarsi P. An adult autosomal recessive chronic granulomatous disease patient with pulmonary Aspergillus terreus infection. BMC Infect Dis. 2018; 8;18(1):552. doi: 10.1186/s12879-018-3451-8.

**Mortaz E**, Alipoor SD, Adcock IM, Mumby S, Koenderman L. Update on Neutrophil Function in Severe Inflammation. Front Immunol. 2018; 2;9:2171. doi: 10.3389/fimmu.2018.02171. eCollection 2018.

Alavi-Moghaddam M, Chehrazi M, Alipoor SD, Mohammadi M, Baratloo A, Mahjoub MP, Movasaghi M, Garssen J, Adcock IM, **Mortaz E**. A Preliminary Study of microRNA-208b after Acute Myocardial Infarction: Impact on 6-Month Survival. Dis Markers. 2018 ;27;2018:2410451.

Alipoor SD, **Mortaz E**, Tabarsi P, Marjani M, Varahram M, Folkerts G, Garssen J, Adcock IM. miR-1224 Expression Is Increased in Human Macrophages after Infection with Bacillus Calmette-Guérin (BCG). Iran J Allergy Asthma Immunol. 2018; 17(3):250-257.

**Mortaz E**, Alipoor SD, Varahram M, Jamaati H, Garssen J, Mumby SE, Adcock IM. Exosomes in Severe Asthma: Update in Their Roles and Potential in Therapy. Biomed Res Int. 2018, 8; 2018:2862187. doi: 10.1155/2018/2862187. Review.

Alipoor SD, **Mortaz E**, Varahram M, Movassaghi M, Kraneveld AD, Garssen J, Adcock IM. The Potential Biomarkers and Immunological Effects of Tumor-Derived Exosomes in Lung Cancer. Front Immunol. 2018;18;9:819. doi: 10.3389/fimmu.2018.00819. Review.

Nazari A, Zahmatkesh M, **Mortaz E**, Hosseinzadeh S. Effect of methamphetamine exposure on the plasma levels of endothelial-derived

microparticles. Drug Alcohol Depend. 2018; 1;186:219-225.

Taghavi M, **Mortaz E**, Khosravi A, Vahedi G, Folkerts G, Varahram M, Kazempour-Dizaji M, Garssen J, Adcock IM. Zymosan attenuates melanoma growth progression, increases splenocyte proliferation and induces TLR-2/4 and TNF- $\alpha$  expression in mice. J Inflamm (Lond). 2018, 22;15:5.

Moloudizargari M, **Mortaz E**, Asghari MH, Adcock IM, Redegeld FA, Garssen J. Effects of the polyunsaturated fatty acids, EPA and DHA, on hematological malignancies: a systematic review. Oncotarget. 2018, 5;9(14):11858-11875. doi: 10.18632/oncotarget.24405. eCollection 2018 Feb 20. Review.

Alinejad Dizaj M, **Mortaz E**, Mahdaviani SA, Mansouri D, Mehrian P, Verhard EM, Varahram M, Babaie D, Adcock IM, Garssen J, van de Vosse E, Velayati A. Susceptibility to mycobacterial disease due to mutations in IL-12R $\beta$ 1 in three Iranian patients. Immunogenetics. 2018; 70(6):373-379.

Hosseinzadeh S, Noroozian M, **Mortaz E**, Mousavizadeh K. Plasma microparticles in Alzheimer's disease: The role of vascular dysfunction. Metab Brain Dis. 2018; 33(1):293-299.

Saeedfar K, Behmanesh M, **Mortaz E**, Masjedi MR. Different Gene Expressions of Alpha and Beta Glucocorticoid Receptors in Asthmatics. Iran J Pharm Res. 2018; 17(2):790-800.

Hashemian SM, **Mortaz E**, Jamaati H, Bagheri L, Mohajerani SA, Garssen J, Movassaghi M, Barnes PJ, Hill NS, Adcock IM. Budesonide facilitates weaning from mechanical ventilation in difficult-to-wean very severe COPD patients: Association with inflammatory mediators and cells. J Crit Care. 2018;44:161-167.

Shamaei M, **Mortaz E**, Pourabdollah M, Garssen J, Tabarsi P, Velayati A, Adcock IM. Evidence for M2 macrophages in granulomas from pulmonary sarcoidosis: A new aspect of macrophage heterogeneity. Hum Immunol. 2018;79(1):63-69.

Alizadeh Z, Mazinani M, **Mortaz E**, Fazlollahi MR, Adcock I, Moein M. Glucocorticoid Receptor Nuclear Translocation in CD4 T Cells from Severe and Moderate Asthmatic Patients Treated with Fluticasone/Vilanterol. Iran J Allergy Asthma Immunol. 2018; 17(1):1-8.

Salamo O, **Mortaz E**, Mirsaedi M. Noncoding RNAs: New Players in Pulmonary Medicine and Sarcoidosis. Am J Respir Cell Mol Biol. 2018 ;58(2):147-156. doi: 10.1165/rcmb.2017-0196TR. Review.

**Mortaz E**, Moloudizargari M, Varahram M, Movassaghi M, Garssen J, Kazempour Dizagie M, Mirsaedi M, Adcock IM. What Immunological Defects Predispose to Non-tuberculosis Mycobacterial Infections? Iran J Allergy Asthma

Immunol. 2018 ;17(2):100-109.

## **2017**

**Mortaz E**, Adcock IM, Jamaati H, Khosravi A, Movassaghi M, Garssen J, Alavi Mogadam M, Redegeld FA. Immunoglobulin Free Light Chains in the Pathogenesis of Lung Disorders. Iran J Allergy Asthma Immunol. 2017;16(4):282-288

Alipoor SD, **Mortaz E**, Tabarsi P, Farnia P, Mirsaeidi M, Garssen J, Movassaghi M, Adcock IM. Bovis Bacillus Calmette-Guerin (BCG) infection induces exosomal miRNA release by human macrophages. J Transl Med. 2017; 12;15(1):105.

**Mortaz E**, Marashian SM, Ghaffaripour H, Varahram M, Mehrian P, Dorudinia A, Garssen J, Adcock IM, Taylor M, Mahdavian SA. A new ataxia-telangiectasia mutation in an 11-year-old female. Immunogenetics. 2017;69(7):415-419.

Heshmatnia J, Marjani M, Mahdavian SA, Adimi P, Pourabdollah M, Tabarsi P, Mahdavi F, Jamaati H, Adcock IM, Garssen J, Velayati A, Mansouri D, **Mortaz E**. Paecilomyces formosus Infection in an Adult Patient with Undiagnosed Chronic Granulomatous Disease. J Clin Immunol. 2017;37(4):342-346.

**Mortaz E**, Adcock IM, Abedini A, Kiani A, Kazempour-Dizaji M, Movassaghi M, Garssen J. The role of pattern recognition receptors in lung sarcoidosis. Eur J Pharmacol. 2017 I, 5; 808:44-48.

**Mortaz E**, Adcock IM, Tabarsi P, Darazam IA, Movassaghi M, Garssen J, Jamaati H, Velayati A. Pattern recognitions receptors in immunodeficiency disorders. Eur J Pharmacol. 2017; 5; 808:49-56.

Saeedfar K, Behmanesh M, **Mortaz E**, Masjedi MR. The Expression of STAT3 and STAT5A Genes in Severe Refractory Asthma. Tanaffos. 2017; 16(1):1-8.

Alizadeh Z, **Mortaz E**, Adcock I, Moin M. Role of Epigenetics in the Pathogenesis of Asthma.Iran J Allergy Asthma Immunol. 2017 Apr; 16(2):82-91.

**Mortaz E**, Alipoor SD, Movassaghi M, Varahram M, Ghorbani J, Folkerts G, Garssen J, Adcock IM. Water-pipe smoke condensate increases the internalization of Mycobacterium Bovis of type II alveolar epithelial cells (A549). BMC Pulm Med. 2017 Apr 21; 17(1):68

Masjedi MR, Hosseini M, Aryanpur M, **Mortaz E**, Tabarsi P, Soori H, Emami H, Heidari G, Dizagie MK, Baikpour M. The effects of smoking on treatment outcome in patients newly diagnosed with pulmonary tuberculosis. Int J Tuberc Lung Dis. 2017 Mar 1; 21(3):351-356.

**Mortaz E**, Adcock IM, Abedini A, Kiani A, Kazempour-Dizaji M, Movassaghi M, Garssen J. The role of pattern recognition receptors in lung sarcoidosis. Eur J

Pharmacol. 2017 Aug 5; 808:44-48.

Jamaati H, Sharifi A, Mirenayat MS, Mirsadraee M, Amoli K, Heidarnazhad H, Sigari N, Saeedfar K, Kahkouee S, Pourabdollah Toutkaboni M, **Mortaz E**, Hashemian SM, Mohamadnia A. What Do We Know about Anthracofibrosis? A Literature Review. Tanaffos. 2017; 16(3):175-189. Review.

## **2016**

Givi ME, Akbari P, Boon L, Puzovic VS, Bezemer GF, Ricciardolo FL, Folkerts G, Redegeld FA, **Mortaz E**. Dendritic cells inversely regulate airway inflammation in cigarette smoke-exposed mice. Am J Physiol Lung Cell Mol Physiol. 2016 Jan 1;310(1):L95-102.

Shafaghi S, Najafizadeh K, Sheikhy K, Ansari Aval Z, Farzanegan B, Mafhoomi Y, Faghieh Abdollahi Z, Emami H, **Mortaz E**, Porabdollah M, Jahangiri Fard A, Nikobayan Safaei M, Slama A, Aigner C, Hosseini-Baharanchi FS, Abbasi Dezfuli A. The First Experience of Ex-Vivo Lung Perfusion (EVLP) in Iran: An Effective Method to Increase Suitable Lung for Transplantation. Int J Organ Transplant Med. 2016;7(4):219-227.

**Mortaz E**, Rezayat F, Amani D, Kiani A, Garssen J, Adcock IM, Velayati A. The Roles of T Helper 1, T Helper 17 and Regulatory T Cells in the Pathogenesis of Sarcoidosis. Iran J Allergy Asthma Immunol. 2016;15(4):334-339. Review.

Alinejad Dizaj M, Mahdavian SA, Tabarsi P, Ahari H, Ebrahimi A, Nadji SA, Emami H, **Mortaz E**. Association of Mycobacterium infections in patients with Mendelian susceptibility to mycobacterial disease with venous thromboembolism. Microbiol Immunol. 2016 Oct;60(10):678-686.

Alipoor SD, Adcock IM, Garssen J, **Mortaz E**, Varahram M, Mirsaiedi M, Velayati A. The roles of miRNAs as potential biomarkers in lung diseases. Eur J Pharmacol. 2016 Nov 15; 791:395-404. doi: 10.1016/j.ejphar.2016.09.015. Epub 2016 Sep 12. Review.

Athari SS, Pourpak Z, Folkerts G, Garssen J, Moin M, Adcock IM, Movassaghi M, Ardestani MS, Moazzeni SM, **Mortaz E**. Conjugated Alpha-Alumina nanoparticle with vasoactive intestinal peptide as a Nano-drug in treatment of allergic asthma in mice. Eur J Pharmacol. 2016 Nov 15; 791:811-820.

Alipoor SD, **Mortaz E**, Garssen J, Movassaghi M, Mirsaiedi M, Adcock IM. Exosomes and Exosomal miRNA in Respiratory Diseases. Mediators Inflamm. 2016; 2016:5628404. Epub 2016 Sep 25. Review.

**Mortaz E**, Tabarsi P, Mansouri D, Khosravi A, Garssen J, Velayati A, Adcock IM. Cancers Related to Immunodeficiencies: Update and Perspectives. Front Immunol. 2016 Sep 20; 7:365. eCollection 2016. Review.

Aryanpur M, Hosseini M, Masjedi MR, **Mortaz E**, Tabarsi P, Soori H, Emami H, Heidari G, Dizagie MK, Baikpour M. A randomized controlled trial of smoking cessation methods in patients newly-diagnosed with pulmonary tuberculosis. BMC Infect Dis. 2016 Aug 5; 16:369

Aryanpur M, **Mortaz E**, Masjedi MR, Tabarsi P, Garssen J, Adcock IM, Mozafarian A, Sharifi H. Reduced Phagocytic Capacity of Blood Monocyte/Macrophages in Tuberculosis Patients Is Further Reduced by Smoking. Iran J Allergy Asthma Immunol. 2016; 15(3):174-82.

Mirsaeidi M, **Mortaz E**, Omar HR, Camporesi EM, Sweiss N. Association of Neutrophil to Lymphocyte Ratio and Pulmonary Hypertension in Sarcoidosis Patients. Tanaffos. 2016;15(1):44-7.

Aryanpur M, Masjedi MR, **Mortaz E**, Hosseini M, Jamaati H, Tabarsi P, Soori H, Heydari GR, Kazempour-Dizaji M, Emami H, Mozafarian A. Intention to Quit Smoking and Associated Factors in Smokers Newly Diagnosed with Pulmonary Tuberculosis. Tanaffos. 2016;15(1):17-24.

Aryanpur M, Masjedi MR, Hosseini M, **Mortaz E**, Tabarsi P, Soori H, Emami H, Heydari G, Baikpour M. Cigarette smoking in patients newly diagnosed with pulmonary tuberculosis in Iran. Int J Tuberc Lung Dis. 2016;20(5):679-84.

Hessami Z, Masjedi MR, **Mortaz E**, Heydari G, Kazempour-Dizaji M, Sharifi H, Jamaati H. Evaluation of Dual Tobacco Smoking (Water Pipe and Cigarettes) and Associated Factors in Adults in Tehran. Tanaffos. 2016;15(3):180-186.

## **2015**

**Mortaz E**, Sereshki HA, Abedini A, Kiani A, Mirsaeidi M, Soroush D, Garssen J, Velayati A, Redegeld FA, Adcock IM. Association of serum TNF- $\alpha$ , IL-8 and free light chain with HLA-DR B alleles expression in pulmonary and extra-pulmonary sarcoidosis. J Inflamm (Lond). 2015 Mar 19; 12:21.

Salehi B, **Mortaz E**, Tabarsi P. Comparison of antibacterial activities of cadmium oxide nanoparticles against Pseudomonas Aeruginosa and Staphylococcus Aureus bacteria. Adv Biomed Res. 2015 May 29; 4:105.

**Mortaz E**, Adcock IM, Ricciardolo FL, Varahram M, Jamaati H, Velayati AA, Folkerts G, Garssen J. Anti-Inflammatory Effects of Lactobacillus Rahmnosus and Bifidobacterium Breve on Cigarette Smoke Activated Human Macrophages. PLoS One. 2015; 28; 10(8):e0136455.

Givi ME, Folkerts G, Wagenaar GT, Redegeld FA, **Mortaz E**. Cigarette smoke differentially modulates dendritic cell maturation and function in time. Respir Res. 2015 Oct 24; 16:131.

Marashian SM, **Mortaz E**, Jamaati HR, Alavi-Moghaddam M, Kiani A, Abedini A, Garssen J, Adcock IM, Velayati AA. [Role of Innate Lymphoid Cells in Lung Disease](#). Iran J Allergy Asthma Immunol. 2015;14(4):346-60.

**Mortaz E**, Eslaminejad A, Varahram M, Heshmatnia J, Abedini A, Kiani A, Velayati A, Garssen J, Adcock IM. [Are There Any Epigenetic Similarities Between Treatments Unresponsive Sarcoidosis, COPD and Severe Asthma?](#) Iran J Allergy Asthma Immunol. 2015 Oct;14(5):472-5.

Haghgoo SM, Allameh A, **Mortaz E**, Garssen J, Folkerts G, Barnes PJ, Adcock IM. [Pharmacogenomics and targeted therapy of cancer: Focusing on non-small cell lung cancer](#). Eur J Pharmacol. 2015 May 5;754:82-91.

Khodavaisy S, **Mortaz E**, Mohammadi F, Aliyali M, Fakhim H, Badali H. [Pneumocystis jirovecii colonization in Chronic Obstructive Pulmonary Disease \(COPD\)](#). Curr Med Mycol. 2015 ;1(1):42-48. doi: 10.18869/acadpub.cmm.1.1.42. Review.

**Mortaz E**, Gudarzi H, Tabarsi P, M Adcock I, Masjedi MR, Jamaati HR, Garssen J, Velayati AA, A Redegeld F. [Flow cytometry applications in the study of immunological lung disorders](#). Iran J Allergy Asthma Immunol. 2015;14(1):12-8. Review.

**Mortaz E**, Adcock IM, Tabarsi P, Masjedi MR, Mansouri D, Velayati AA, Casanova JL, Barnes PJ. [Interaction of Pattern Recognition Receptors with Mycobacterium Tuberculosis](#). J Clin Immunol. 2015;35(1):1-10. doi: 10.1007/s10875-014-0103-7.

## **2014**

**Mortaz E**, Adcock IM, Barnes PJ. [Sarcoidosis: Role of non-tuberculosis mycobacteria and Mycobacterium tuberculosis](#). Int J Mycobacteriol. 2014; 3 (4):225-9.

Hosseini M, Naghan PA, Jafari AM, Yousefifard M, Taslimi S, Khodadad K, Mohammadi F, Sadr M, Rezaei M, **Mortaz E**, Masjedi MR. [Nutrition and lung cancer: a case control study in Iran](#). BMC Cancer. 2014; 21;14:860

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### **2013**

Saki N, Farshdousti Hagh M, **Mortaz E**, Ardeshiry Lajimi A. [Does DNA Methylation Plays a Critical Role in Osteoblastic Differentiation of Mesenchymal Stem Cells \(MSCs\)?](#) Iran Red Crescent Med J. 2013;15(8):755-6.

Ardeshiry Lajimi A, Hagh MF, Saki N, **Mortaz E**, Soleimani M, Rahim F. [Feasibility of cell therapy in multiple sclerosis: a systematic review of 83 studies](#). Int J Hematol Oncol Stem Cell Res. 2013;7(1):15-33. Review.

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Overbeek SA, Braber S, Koelink PJ, Henricks PA, **Mortaz E**, LoTam Loi AT, Jackson PL, Garssen J, Wagenaar GT, Timens W, Koenderman L, Blalock JE, Kraneveld AD, Folkerts G. [Cigarette smoke-induced collagen destruction; key to chronic neutrophilic airway inflammation?](#) PLoS One. 2013; 8(1):e55612.

**Mortaz E**, Masjedi MR, Matroodi S, Abedini A, Kiani A, Soroush D, Adcock IM. [Concomitant patterns of tuberculosis and sarcoidosis](#). Tanaffos. 2013; 12(4):6-9. Review.

Masjedi MR, Naghan PA, Taslimi S, Yousefifard M, Ebrahimi SM, Khosravi A, Karimi S, Hosseini M, **Mortaz E**. [Opium could be considered an independent risk factor for lung cancer: a case-control study](#). Respiration. 2013; 85(2):112-8.

## **2012**

**Mortaz E**, Masjedi MR, Allameh A, Adcock IM. [Inflammasome signaling in pathogenesis of lung diseases](#). Curr Pharm Des. 2012; 18(16):2320-8. Review.

**Mortaz E**, Adcock IM, Shafei H, Masjedi MR, Folkerts G. [Role of P2X7 Receptors in Release of IL-1β: A Possible Mediator of Pulmonary Inflammation](#). Tanaffos. 2012; 11(2):6-11. Review.

**Mortaz E**, Adcock IA. [Limitation of COPD Studies in Animal Modeling](#). Tanaffos. 2012; 11(3):7-8.

**Mortaz E**, Barnes PJ, Heidarnazhad H, Adcock IM, Masjedi MR. [Immunological Features of Chronic Obstructive Pulmonary Disease \(COPD\) Induced by Indoor Pollution and Cigarette Smoke](#). Tanaffos. 2012; 11(4):6-17. Review.

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**Mortaz E**, Givi ME, Da Silva CA, Folkerts G, Redegeld FA. [A relation between TGF-β and mast cell tryptase in experimental emphysema models](#). Biochim Biophys Acta. 2012; 1822(7):1154-60.

Ahmadi-Ashtiani HR, Allameh A, Rastegar H, **Mortaz E**, Saraf Z. [Immunoregulatory effects of glutathione during mesenchymal stem cell differentiation to hepatocyte-like cells](#). Iran J Immunol. 2012; 9(3):175-87.

## **2011**

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**Mortaz E**, Folkerts G, Redegeld F. Mast cells and COPD. *Pulm Pharmacol Ther.* 2011 ;24(4):367-72. Review.

van Eijl S, **Mortaz E**, Versluis C, Nijkamp FP, Folkerts G, Bloksma N. A low vitamin A status increases the susceptibility to cigarette smoke-induced lung emphysema in C57BL/6J mice. *J Physiol Pharmacol.* 2011;62(2):175-82.

**Mortaz E**, Masjedi MR, Barnes P. Identification of Novel Therapeutic Targets in COPD. *Tanaffos.* 2011;10(2):9-14. Review.

van Eijl S, **Mortaz E**, Ferreira AF, Kuper F, Nijkamp FP, Folkerts G, Bloksma N. Humic acid enhances cigarette smoke-induced lung emphysema in mice and IL-8 release of human monocytes. *Pulm Pharmacol Ther.* 2011;24(6):682-9.

**Mortaz E**, Masjedi MR, Rahman I. Outcome of Smoking Cessation on Airway Remodeling and Pulmonary Inflammation in COPD Patients. *Tanaffos.* 2011;10(3):7-11. Review. No abstract available.

**Mortaz E**, Masjedi MR, Barnes PJ, Adcock IM. Epigenetics and chromatin remodeling play a role in lung disease. *Tanaffos.* 2011;10(4):7-16. Review.

**Mortaz E**, Henricks PA, Kraneveld AD, Givi ME, Garssen J, Folkerts G. Cigarette smoke induces the release of CXCL-8 from human bronchial epithelial cells via TLRs and induction of the inflammasome. *Biochim Biophys Acta.* 2011;1812(9):1104-10.

## **2010**

**Mortaz E**, Adcock IM, Ito K, Kraneveld AD, Nijkamp FP, Folkerts G. Cigarette smoke induces CXCL8 production by human neutrophils via activation of TLR9 receptor. *Eur Respir J.* 2010 ;36(5):1143-54.

**Mortaz E**, Folkerts G, Nijkamp FP, Henricks PA. ATP and the pathogenesis of COPD. *Eur J Pharmacol.* 2010;25;638(1-3):1-4.

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## **2009**

**Mortaz E**, Engels F, Nijkamp FP, Redegeld FA. New insights on the possible role of mast cells in aspirin-induced asthma. *Curr Mol Pharmacol.* 2009;2(2):182-9.

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**Mortaz E**, Braber S, Nazary M, Givi ME, Nijkamp FP, Folkerts G. ATP in the pathogenesis of lung emphysema. Eur J Pharmacol. 2009;1;619(1-3):92-6.

**Mortaz E**, Lazar Z, Koenderman L, Kraneveld AD, Nijkamp FP, Folkerts G. Cigarette smoke attenuates the production of cytokines by human plasmacytoid dendritic cells and enhances the release of IL-8 in response to TLR-9 stimulation. Respir Res. 2009;10;10:47.

Sarir H, **Mortaz E**, Karimi K, Kraneveld AD, Rahman I, Caldenhoven E, Nijkamp FP, Folkerts G. Cigarette smoke regulates the expression of TLR4 and IL-8 production by human macrophages. J Inflamm (Lond). 2009;1;6:12.

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**Mortaz E**, Folkerts G, Engels F, Nijkamp FP, Redegeld FA. Cigarette smoke suppresses in vitro allergic activation of mouse mast cells. Clin Exp Allergy. 2009 May;39(5):679-87.

## **2008**

**Mortaz E**, Rad MV, Johnson M, Raats D, Nijkamp FP, Folkerts G. Salmeterol with fluticasone enhances the suppression of IL-8 release and increases the translocation of glucocorticoid receptor by human neutrophils stimulated with cigarette smoke. J Mol Med (Berl). 2008 Sep;86(9):1045-56.

**Mortaz E**, Redegeld FA, Sarir H, Karimi K, Raats D, Nijkamp FP, Folkerts G. Cigarette smoke stimulates the production of chemokines in mast cells. J Leukoc Biol. 2008 Mar;83(3):575-80.

## **2007**

Sarir H, **Mortaz E**, Karimi K, Johnson M, Nijkamp FP, Folkerts G. Combination of fluticasone propionate and salmeterol potentiates the suppression of cigarette smoke-induced IL-8 production by macrophages. Eur J Pharmacol. 2007 Sep 24;571(1):55-61.

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## **2006**

**Mortaz E**, Redegeld FA, Nijkamp FP, Engels F. Aspirin induces the production of the inflammatory mediator 8-epi-PGF in mast cells. Eur J Pharmacol. 2006 Aug 14; 543(1-3):190-3.

Karimi K, Sarir H, **Mortaz E**, Smit JJ, Hosseini H, De Kimpe SJ, Nijkamp FP, Folkerts G. Toll-like receptor-4 mediates cigarette smoke-induced cytokine production by human macrophages. Respir Res. 2006 Apr 19; 7:66.

**Mortaz E**, Redegeld FA, Bloksma N, Dunsmore K, Denenberg A, Wong HR, Nijkamp FP, Engels F. Induction of HSP70 is dispensable for anti-inflammatory action of heat shock or NSAIDs in mast cells. Exp Hematol. 2006 Apr;34(4):414-23

**Mortaz E**, Redegeld FA, Nijkamp FP, Wong HR, Engels F. Acetylsalicylic acid-induced release of HSP70 from mast cells results in cell activation through TLR pathway. Exp Hematol. 2006 Jan;34(1):8-18.

## **2005**

**Mortaz E**, Redegeld FA, van der Heijden MW, Wong HR, Nijkamp FP, Engels F. Mast cell activation is differentially affected by heat shock. Exp Hematol. 2005 Aug;33(8):944-52

**Mortaz E**, Redegeld FA, Nijkamp FP, Engels F. Dual effects of acetylsalicylic acid on mast cell degranulation, expression of cyclooxygenase-2 and release of pro-inflammatory cytokines. Biochem Pharmacol. 2005 Apr 1; 69(7):1049-57

## **Conference Abstracts**

1: **Mortaz E**, Sadeghi-Hashjin G & Jamshidi A. "A study on the effects of peroxynitrite (ONOO<sup>-</sup>) on the hepatic and renal function and on the blood cell count in the rabbit". Tehran 14<sup>th</sup> Iranian Congress of Physiol & Pharmacol April 19-24, 1999, Tehran, Iran.

2: **Mortaz E**, Sarrafzadeh F, Hobbenaghi R. "A study of blood parameters changes following gastrointestinal fixation". World congress in small animal, Amsterdam, April 25-29, 2000, Amsterdam, The Netherlands.

3: G. Sadeghi-Hashjin, **Mortaz E**, R. Akbaryan, A. Jamshidi. "Oxidant injury and microvascular leakage in the lung: an experimental model". Scand J Immunol 2001, 54 Suppl 1, 72 –73.

4: Engels F, **Mortaz E**, Redegeld F. A, Nijkamp F. P." Aspirin and sodium salicylate inhibit tumor necrosis –alpha protein secretion in murine bone marrow-derived mast cells". EPHAR congress, July 6<sup>th</sup> –9<sup>th</sup>, 2001, Lyon, France.

5: Batavani RA and **Mortaz E** "Studies on lactate dehydrogenase, alkaline

phosphatase and aspartate aminotransferase activity of milk and blood for detection of subclinical mastitis in ewes". 5<sup>th</sup> Veterinary Congress, 21-25 January 2001, South Africa.

6: **Mortaz E.** Engels F, Redegeld F. A, Nijkamp F. P. "NSAIDs suppress Tumor necrosis factor - protein secretion and binding NF-B to an NF-B binding site in murine bone marrow derived mast cells". American journal of Respiratory and Critical care Medicine Vol 165, number 8 98<sup>th</sup> International Congress of ATS, May 17-22, 2002 Atlanta, Georgia, USA.

7: **Mortaz E.** Engels F, Redegeld F. A, Nijkamp F. P. "Acetylsalicylic acid upregulates COX-2 expression in J774.2 macrophages". The FASEB journal of Immunology, May 6-10, 2003 Denver, Colorado, USA.

8: **Mortaz E.** Engels F, Redegeld F. A, Nijkamp F. P. "Inhibition of proinflammatory cytokine release in macrophages exposed to heat shock". 1<sup>st</sup> international congress on stress response in biology and medicine, Sep10<sup>th</sup>-14<sup>th</sup>, 2003 Qubec, Canada.

9: **Mortaz E.** Engels F., Nijkamp F. P. Wong R. H. "Heat shock suppresses IL-6 expression in fibroblast in absence of HSF-1". XXIII Congress of the European academy of allergology and clinical immunology, EAACI 2004, 12-16 June 2004 Amsterdam, The Netherlands.

10: **Mortaz E.** Engels F., Nijkamp F. P., Wong R. H. "Sodium arsenite induces heat shock response and affects immunologic functions of mast cells" 12<sup>th</sup> international immunology congress, 18-23 July 2004 Montreal, Canada.

11: Karimi K., **Mortaz E.**, smit j., Nijkamp F. P, Flokerts. G. "Nuclear Factor-[kappa]B Activation Is Involved in Cigarette-Smoke-Induced Interleukin-8 Production by Human Monocyte-Derived Macrophages". 12<sup>th</sup> international immunology congress, 18-23 July 2004, Montreal, Canada.

12: **Mortaz E.** Sarir H, Nijkamp F.P, Flokerts G. "Cigarette smoke rapidly decreases mast cell functions". European academy of allergy and clinical immunology EAACI, 26- 29 June 2005 Munich, Germany

13: **Mortaz E.**, Redegeld F, M . W Heijden, F P Nijkamp, H. R. Wong and F. Engels. "Modulation of immunological functions of mast cells by heat shock". FOCIS 2005, 12-16 May 2005, Boston, USA

14: **Mortaz E.**, Nijkamp F.P, Flokerts G, Cigarette Smoke Extract Induces

Dendritic Cells Mediators Release by Activation of NF-kB and AP-1 Pathways, the 19<sup>th</sup> symposium of the protein society: July 30- 3 2005, Boston, MA, USA.

15: **Mortaz E.**, H. Sarir, S. Yosefi, C. Agar, K. Hussaini, F. P. Nijkamp, G. Folkerts "Effects of cigarette smoke on surface expression of toll like receptors in dendritic cells" 34th Annual Scientific Meeting of the International Society for Experimental Hematology, 15– 22 August 2005, Glasgow, Scotland, UK.

16: H. Sarir, **Mortaz E.**, F. P. Nijkamp, G. Folkerts "Cigarette Smoke-induced IL-8 production by human monocyte-derived macrophages: Synergistic inhibition by Fluticasone and Salmeterol" Sep 17-21 2005, Copenhagen, Denmark.

17: **Mortaz E.**, H. Sarir, S. Yosefi, C. Agar, K. Hussaini, F. P. Nijkamp, G. Folkerts 'Effects of cigarette smoke on proteases and elastase release of human neutrophils'. 19-24 May, ATS, 2006 San Diego, USA.

18: **Mortaz E.**, H. Sarir, S. Yosefi, C. Agar, K. Hussaini, F. P. Nijkamp, G. Folkerts 'Cigarette smoke media increases production of IL-8 and ENA-78 by human Neutrophils', FOCIS, 1-5 July 2006, San Francisco, USA.

19: **Mortaz E.**, H. Sarir, S. Yosefi, C. Agar, K. Hussaini, F. P. Nijkamp, G. Folkerts 'Cigarette smoke media induces MIP-1 release from mast cells' 2006, 10-14 June Vienna, EACCI 2006, Austria.

20: Sarir H, **Mortaz E.**, Nijkamp F, Folkerts G. Cigarette smoke extracts potentiates TNF- to induce NF-B-dependent IL-8 release through an oxidative stress dependent mechanism . 1st Joint Meeting of European National Societies of Immunology -16th European Congress of Immunology, Paris under of EFIS from September 6-9, 2006. Paris, France.

21: **Mortaz E.**, Sarir H, Karimi KI, Redegeld F, Nijkamp Frans, Folkerts Gert .Cigarette smoke induces chemokine release and suppress degranulation of mast cells. 1st Joint Meeting of European National Societies of Immunology - 16th European Congress of Immunology, Paris under of EFIS from September 6-9, 2006, Paris, France.

22: **Mortaz E.**, Hadi Sarir, Danielle Raats, Frans P. Nijkamp and Gert Folkerts "Salmeterol and fluticasone by increasing translocation of glucocorticoid receptor inhibits releases of IL-8 induced by cigarette smoke extract", EAACI 2007, June 9-13,, Gutenberg Sweden.

23: **Mortaz E.**, Ian Adcock, Kazuhiro Ito , Frans P Nijkamp and G. Folkerts. CPG potentiates the effects of cigarette smoke on releases of IL-8 in neutrophils, 98

annual world Immunology meeting 2007 (AAI), May 18-23, Miami, USA.  
([http://www.jimmunol.org/cgi/content/meeting\\_abstract/178/MeetingAbstracts/LB11-d](http://www.jimmunol.org/cgi/content/meeting_abstract/178/MeetingAbstracts/LB11-d))

24: **Mortaz E**, J. Smit, M. Ezzati., D. Raats., F. Nijkamp., G. Folkerts., Cigarette Smoke Modulates Dendritic Cell Function by Releases of Chemokines, [Publication Page: A865] ATS 2008, Toronto. Canada.

25: **Mortaz E**, Z. Lazar, M. Ezzati Givi, L. Koenderman, A.D. Kraneveld, F.P. Nijkamp, G. Folkerts., Cigarette Smoke Attenuates Production of Cytokines and Induces Releases of IL-8 by Human Plasmacytoid Dendritic Cells, ATS 2009, SAN DIEGO, USA.

26: **Mortaz E**, M. Ezzati Givi, Z. Lazar, L. Koenderman, A. Kraneveld, G. Folkerts., Modulation of activity human plasmacytoid dendritic cells by cigarette smoke. Sanquin Spring Seminars 2009, Amsterdam, The Netherlands.

27: **Mortaz E**, Gert Folkerts, F. P. Nijkamp and Gert Folkerts., Cigarette smoke suppresses in vitro allergic activation of mouse mast cells. "Oral Presentation" American Immunologist meeting (AAI) Seattle, 2009, Washington, USA.

28: **Mortaz E**, H. Sarir, K. Karimi, F. P. Nijkamp and G. Folkerts., Cigarette smoke regulates the expression of TLR4 and IL-8 production by human macrophages. Spring meeting TI Pharma, 23 April 2009, Utrecht, The Netherlands

29: A.D. Kraneveld , **Mortaz E**, K. Ito, Ian Adcock, F. P Nijkamp, N. A Georgiou and G. Folkerts. Cigarette smoke triggers human neutrophils to produce interleukin-8 via modulation of TLR9 receptor, Keystone, 2009, Canada.

30: **Mortaz E**, Z. Lazar, M. Ezzati Givi, L. Koenderman, A.D. Kraneveld, F.P. Nijkamp, G. Folkerts, Cigarette Smoke Attenuates Production of Cytokines and Induces Releases of IL-8 by Human Plasmacytoid Dendritic Cells ATS 2009, Sandiego 2009, USA

31: **Mortaz E**, M Givi , S E. Ghahferokhi , B Blokhuis, C A. Da Silva , G Folkerts and F A. Redegeld. Cigarette smoke induces the release of TGF- in airways and modulates tryptase expression and mast cell maturation, International Mast Cell and Basophil Meeting 2010, 8-11 Dec 2010 , Berlin, Germany.

32: **Mortaz E**, P. Henriks, Aleta kranveld and Gert Folkerts, Cigarette smoke induces the release of CXCL8 from human bronchial epithelial cells via TLRs and induction of inflammasome , March 18-19, 2011, 1<sup>st</sup> Benelux congress on



physiology and pharmacology physpharbenelux.crg” Oral presentation

33: **Mortaz E**, G Folkerts, AD Kraneveld <sup>1</sup>, M Kool, B N. Lambrecht <sup>3</sup>, J Garssen and F A. Redegeld; Role of inflammasome (NALP3/ASC) in development and function of mast cells, AAI May 13-16, 2011, Sanfrancisco.

34: **Mortaz E**, J van Bergenhenegouwen, N Georgiou, J Garssen , AD. Kraneveld <sup>1</sup> and G Folkerts; Lactobacillus rhamnosus and Bifidobacterium breve suppress cigarette smoke induced CXCL-8 release by human macrophages. Pharma-Nutrition April 18-21, 2011, Amsterdam.

35: M. EG, **Mortaz E**, G Folkerts. Cigarette smoke extract suppresses the maturation and function of bone marrow derived dendritic cells. European Respiratory society meeting 24-28 Sep. 2011, Amsterdam, The Netherlands

36: **Mortaz E**, Henricks PA, Kraneveld AD, Givi ME, Garssen J, Folkerts G. Cigarette smoke induces the release of CXCL-8 from human bronchial epithelial cells via TLRs and the induction of inflammasome, European Respiratory society meeting 24-28 Sep. 2011, Amsterdam, The Netherlands

37. **Mortaz E**, Folkerts G and Redegeld F. A Relation Between TGF- $\beta$  And Mast Cells Tryptase In Experimental Emphysema Models. 2012 ATSInternational Conference in San Francisco, California.

38. **Mortaz E**. Defect of IL-12 and IFN- in MSMD patients

Antalya April 2017, Turkey

39. Guitti Powordovlat, **Esmail Mortaz**, Investigation CD14 with Toll like receptors in pleural effusion for thoracic disorders, ERS , Sep 2017, Milan, Italy

**ERS 2018 (European Respiratory Society annual congress, 9-13 Sep 2018-Paris-France)**

40- Association of HLA-DR alleles with pulmonary cystic fibrosis

41. Association of Pre-miR-rs2910164 polymorphism with non-small cell lung cancer in an Iranian population

**CIS 2018 (Clinical Immunology Society “6-29 April, 2018, Toronto. Canada)**

42. Unusual fungal infection in adults' chronic granulomatous diseases

TTS 2018 (Turkish Thoracic society, Antalya 2018, Turkey) Oral presentation

**PhD Students (7 completed, 9 ongoing)**

**Primary Supervisor:**

7 students

**Master's Students**

14

**Journal editorial boards:**

5 Journal

**Journal Reviewer:**

6 journals

**Conference Organization:**

4 congress



- Course on Laboratory Animal Science (Meets the requirements of the Experiments on Animals Degree), summer 2000, Utrecht University, The Netherlands (Article 9).
- Molecular Biology and recombinant-DNA technology from June 17 to June 28, 2002, Utrecht University, The Netherlands
- ULLA summer school London, Protein purification, Crystallization, Mass spectrophotometry, MALDI O-TOF Mass Spectrometry techniques. 21 August to 31 August 2001, held at the school of pharmacy, London, UK
- Writing and editing scientific papers, from 9 April to 4 June 2002, James Boswell Institute, Utrecht University, The Netherlands.
- Spoken English from 10 October to 19 December 2000, James Boswell Institute, Utrecht University, The Netherlands
- Presenting in English from 12 November to 10 December 2001, James Boswell

Institute, Utrecht University.

- Bio-statistic for researchers 30 June 2000, Faculty of Science, Utrecht University, The Netherlands.

- Immunopharmacology courses 2001, Faculty of Pharmacy, Utrecht University, The Netherlands

- Summer International course to Introduction to Bioinformatics, 17 -27 August 2004, Nijmegen University. The Netherlands ([www.cmbi.kun.nl/edu/scientists/summercourse/participants\\_2004.html](http://www.cmbi.kun.nl/edu/scientists/summercourse/participants_2004.html))

- Postgraduate Immunology Courses, 10-14 January 2005, Eijkman Graduate School for Immunology & Infectious Diseases, Utrecht University, The Netherlands.

- Postgraduate Clinical immunology courses, 19-26 April 2005, Eijkman Graduate School for Immunology & Infectious Diseases, Utrecht University, The Netherlands.

- Pharmacogenomics, Bio-Pharmaceutical Sciences/LACDR, Practical Applications of DNA microarray, SNP's and how to detect them; beyond the genome: application of siRNA technology. May 23-27, 2005; Gorlaeus Laboratories, Leiden University, The Netherlands.

- Research management for PhD students March 11 to 13 March 2003, Utrecht University, The Netherlands

- The workshop on Cryomethods, Ultracryotomy and Immunolabeling organized in laboratory from July 2-July 11, 2008 in collaboration with Leica Microsystems, Vienna.

- Drug development Simulation, 10-18 Sep 2007 at TI Pharma Top Institute Pharma, Ruiswijk, The Netherlands

- Drug discovery Simulation, 2-6 March 2009 at TI Pharma Top Institute Pharma, Ruiswijk, The Netherlands

- Workshop, Microarray 17 April 2009, Utrecht University, The Netherlands

## **Research abroad**

(1) Prof. Hector Wong, lab. At Dept. Critical Care Medicine, in an collaboration work with Utrecht University, title of project: on "Role of HSF and HSP70 in Stress response induced by NSAIDS" (2003-2004).

(2) Prof. dr. Ian Adcock, Dept. Respiratory Cell & Molecular Biology and Head of the Molecular Cell Biology Group at the National Heart & Lung Institute, Imperial College London University, UK, in a collaboration on " Role of TLR9 receptor in production of CXCL-8 by human neutrophils " (2006-2008).

(3) prof Nicholas W. Lukacs, Department of Pathology, University of Michigan Medical School, Ann Arbor, Michigan, United States of America.

## **Management experience:**

1-Director of clinical Immunology diagnostic and research lab 2011-present

With 6 technicians and 12 undergraduate student at Masih Daneshvari Hospital, Tehran-Iran-2012-present

Website: <https://www.researchgate.net/lab/Esmaeil-Mortaz-lab>

## **Collaboration works:**

### **1- Prof Ian M Adcok**

Address: <https://www.imperial.ac.uk/people/ian.adcock>

Email address: [Ian.Adcock@Imperial.ac.UK](mailto:Ian.Adcock@Imperial.ac.UK)

### **2- Prof Johan Garssen**

Website: <https://www.uu.nl/en/research/science-in-the-spotlight/johan-garssen>

Email address: [J.Garssen@uu.nl](mailto:J.Garssen@uu.nl)

### **3- Prof Leo Koenderman**

Website: <http://www.eijkmanschool.org/research/index.php?id=513>

Email address: [L.Koenderman@umcutrecht.nl](mailto:L.Koenderman@umcutrecht.nl)

### **4- Dr. Frank Redegeld**

Website: <https://www.uu.nl/en/research/pharmacology/research/frank-redegeld>

Email address: [F.A.M.Redegeld@uu.nl](mailto:F.A.M.Redegeld@uu.nl)

**5- Prof Gert Folkerts**

Email address:

[G.folkerts@uu.nl](mailto:G.folkerts@uu.nl)

**Current job:**

International researcher on basic and clinical life sciences which has collaboration with:

1- Utrecht University, Utrecht The Netherlands (Prof J. Garssen, Dr. F. Redegeld, Prof G. Folkerts)

2- Imperial London college, London, UK (Prof Ian M. Adcock)