



CURRICULUM VITAE
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Pneumologia

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2. BORN: Ferrara, 16 November 1961.

3. HOME ADDRESS: Via Boschetto 3/ interno 8, 44124, Ferrara, Italy.

4. CITIZENSHIP

Italian.

5. DEGREES

- Degree in Medicine and Surgery (MD), 110/110 summa cum laude, 1992, University of Modena, Italy
- Specialisation in Respiratory Diseases, 50/50 summa cum laude, 1996, University of Ferrara, Italy
- Philosophical Doctor (PhD) in Experimental Respiratory Pathophysiology, 2001, University of Parma, Italy
- Assistant Professor in Respiratory Diseases, 2006-2011, University of Ferrara, Italy
- Associate Professor in Respiratory Diseases, 2011-, University of Ferrara, Italy
- Honorary Full Professor in Respiratory Diseases, 2013-2016 (<https://abilitazione.cineca.it/ministero.php/public/esitoAbilitati/settore/06%252FD1/fascia/1>)
- Full Professor in Respiratory Diseases, University of Messina, Italy 2017-

6. SCIENTIFIC SOCIETIES

European Respiratory Society, 1993-

2013-2015 Chair of the scientific Group 5.01 (Airway Pharmacology and Treatment).

2015- Member of the New York Academy of Sciences, USA

2015- Member of the Società Italiana di Pneumologia/Italian Respiratory Society (SIP/IRS)

2015-, Member of the American College of Chest Physicians
2016, Fellow of European Respiratory Society (FERS) Award
2017- Member of the European Academy of Allergy and Clinical Immunology
2017- Overseas Member of the Royal Society of Medicine, UK
2001- Honorary member of the staff at the Airways Disease Section of the National Heart and Lung Institute at the Imperial College London, London, UK.

7. REFEREE OF SCIENTIFIC JOURNALS

Acta Radiologica, 2011-
American Journal of Physiology, 2009-
American Journal of Respiratory and Critical Care (formerly known as American Review of Respiratory Diseases and American Journal of Respiratory and Critical Care Medicine), 2000-
Apoptosis, 2010-
Biomarkers in Medicine, 2013-
Bioscience Reports, 2010-
BMC Pulmonary Medicine, 2010-
BMC Research Notes, 2012-
BMJ Open, 2013-
Breathe, 2006-
British Journal of Pharmacology, 2000-
Cell Adhesion and Communication, 2010-
Chest, 2006-
Clinical and Experimental Allergy, 2007-
Clinical and Experimental Immunology, 2010-
Clinical Drug Investigation, 2005-
Clinical Lung Cancer, 2011-
Clinical Physiology and Functional Imaging, 2006-
Clinical Respiratory Journal, 2010-
COPD, Journal of Chronic Obstructive Pulmonary Disease, 2012-
Cough, 2007-
Current Cancer Drug Targets, 2011-
Current Clinical Pharmacology, 2010-
Current Medicinal Chemistry, 2010-
Current Opinion in Investigational Drugs, 2008-
Current Pharmaceutical Design, 2011-
Drug Discovery Today, 2005-
Drug News and Perspectives, 2010-
Endocrinology, 2007-
European Journal of Cardiovascular Prevention and Rehabilitation, 2010-
European Journal of Internal Medicine, 2012-
European Respiratory Diseases, 2011-
European Respiratory Journal, 2004-
Expert Opinion in Investigational Drugs, 2012-
Expert Opinion in Pharmacotherapy, 2005-
Expert Opinion on Therapeutic Targets, 2010-
Expert Review of Clinical Immunology, 2008-
Expert Review of Respiratory Medicine, 2011-
FASEB Journal, 2013-
FEMS Immunology and Medical Microbiology, 2008-
Frontiers in Bioscience, 2008-

Future Lipidology, 2008-
Health Policy and Systems, 2007-
Histology and Histopathology, 2010-
Journal of Applied Physiology, 2007-
Journal of Chronic Obstructive Pulmonary Disease, 2005-
Journal of Clinical Medicine and Research, 2011-
Journal of Cytology and Histology, 2012-
Journal of Immunology, 2006-
Journal of Inflammation (London), 2010-
Journal of Medical Hypotheses and Ideas, 2012-
Journal of Occupational Medicine and Toxicology, 2005-
Journal of Pharmacology and Experimental Therapeutics, 2006-
Journal of Thoracic Diseases, 2014-
Key Opinions, 2012-
IDrugs, 2003-
Inflammation and Allergy: Drug Targets, 2008-
International Archives of Allergy and Immunology, 2006-
International Journal of COPD, 2006-
International Journal of Environmental Research and Public Health, 2009-
International Journal of Experimental Pathology, 2009-
International Journal of Health and Geographics, 2008-
International Journal of Molecular Sciences, 2011-
Lancet, 2009-
Lancet Respiratory Medicine, 2017-
Lung, 2007-
Lung Cancer, 2015-
Lung India, 2011-
Molecular Medicine, 2011-
Monaldi Archives for Chest Disease, 1993-
Multidisciplinary Respiratory Medicine, 2016-
Open Respiratory Medicine Journal, 2012-
Patient Adherence and Preference, 2014-
Pharmacology, 2011-
Pharmacological Research, 2006-
PLoS Medicine, 2004-
PLoS One, 2011-
Primary Care Respiratory Journal, 2006-
Pulmonary Pharmacology and Therapeutics (formerly termed Pulmonary Pharmacology), 2002-
Rassegna di Patologia dell'Apparato Respiratorio, 1995-
Recent Patents on Inflammation and Allergy Drug Discovery, 2012-
Regulatory Peptides, 2008-
Respiration, 2000-
Respiratory Medicine, 2005-
Respiratory Research, 2006-
Respirology, 2010-
Southern Medical Journal, 2007-
Stem Cells Reviews and Reports, 2012-
Therapeutic Advances in Respiratory Disease, 2018-
Thorax, 2003-
The Open Pathology Journal, 2008-2013 (discontinued journal)

The Open Respiratory Medicine, 2012-
The Scientific World Journal, 2011-
World Journal of Surgical Oncology, 2006-
Yonsei Medical Journal, 2011-

8. EDITORIAL BOARDS OF SCIENTIFIC JOURNALS

Current positions

Senior Editor:

Journal of Inflammation (<https://journal-inflammation.biomedcentral.com/about/editorial-board>), 2009-.

Editorial Board Member:

Pulmonary Pharmacology and Therapeutics (<http://www.journals.elsevier.com/pulmonary-pharmacology-and-therapeutics/editorial-board>), 2016-
COPD, Journal of Chronic Obstructive Pulmonary Disease, 2018- (<https://www.tandfonline.com/action/journalInformation?show=editorialBoard&journalCode=icop20>)

Previous positions:

COPD Reporter Team Leader

Respiratory Research, 2000-2002.

Editore Associato

Rassegna di Patologia dell'Apparato Respiratorio, 1997-2006

Advisory Board Member:

Advances in Therapy

(<http://www.springer.com/springer+healthcare/journal/12325?detailsPage=editorialBoard>), 2016-2020

Editorial Board Member

COPD Research and Practice, 2015-2017 (discontinued Journal)

The Open Pathology Journal, 2008-2014 (discontinued Journal)

BMC Pulmonary Medicine (<https://bmcpulmed.biomedcentral.com/about/editorial-board>), 2018.

Inflammation and Allergy: Drug Targets, 2008-2015 (discontinued Journal)

9. REFEREE FOR NATIONAL AND INTERNATIONAL INSTITUTIONS

Agenzia Nazionale di Valutazione del Sistema Universitario e della Ricerca (ANVUR) (<http://www.anvur.org/index.php?lang=it>).

Barcelona Respiratory Network (<http://brn.cat/en/>).

Dutch Cancer Society (<https://www.kwf.nl/english/pages/default.aspx>).

European Respiratory Society (ERS) College of Experts.

European Lung Foundation.

FWO (Research Foundation Flanders) (<http://www.fwo.be/en/>).

HRA (http://www.hra.uk.com/media_awards.php).

Imperial College London (<https://www.imperial.ac.uk/>).

Medical Research Council (MRC) (<http://www.mrc.ac.uk/>).

Ministero dell'Istruzione, dell'Università e della Ricerca (MIUR) (<http://www.istruzione.it/>).

Netherlands Asthma Foundation (<https://www.longfonds.nl/>).

The Netherlands Organization for Health Research and Development (<http://www.zonmw.nl/en/>).

The Royal Society of Medicine (<https://www.rsm.ac.uk/>).

The University of Sydney (<http://sydney.edu.au/>).

TV3 Marathon (<http://www.tv3.cat/marato/en/>).

University of Wolverhampton (<http://www.wlv.ac.uk/>).

10. INTERNATIONAL SCIENTIFIC COMMITTEE

Immune Pharma (<http://www.immunepharma.it/about-us/international-scientific-committee/>).

9. REFERENCES

Ian M. Adcock, Full Professor of Respiratory Cell and Molecular Biology, Airway Disease Section, Department of Thoracic Medicine, Faculty of Medicine, National Heart and Lung Institute, Imperial College London, London, UK, e-mail: ian.adcock@imperial.ac.uk, <http://www.imperial.ac.uk/people/ian.adcock>

Peter J. Barnes, Full Professor of Thoracic Medicine, Margaret Turner-Warwick Chair, Head of the Airway Disease Section, Former President of the European Respiratory Society, Department of Thoracic Medicine, Faculty of Medicine, National Heart and Lung Institute, Imperial College London, London, UK, e-mail: p.j.barnes@imperial.ac.uk, <http://www.imperial.ac.uk/people/p.j.barnes>

Kian Fan Chung, Full Professor of Respiratory Medicine, Department of Thoracic Medicine, Faculty of Medicine, National Heart and Lung Institute, Imperial College London, London, UK, e-mail: f.chung@imperial.ac.uk, <http://www.imperial.ac.uk/people/f.chung>

Main areas of research

My research interests have focused from the beginning only on bronchial asthma and chronic obstructive pulmonary disease (COPD). I always tried to apply on human translational studies modern molecular and cellular techniques to the investigation of asthma and COPD patients, particularly through the combination of molecular techniques with clinical studies.

I have been particularly interested to investigate the inflammatory and anti-inflammatory mechanisms in carefully characterised phenotypes of patients with asthma and COPD.

My initial research interest on the role of neurogenic inflammation, cytokines, chemokines, proteases, adenosine, and mucins secretion in these diseases has more recently shifted to the study of the role of transcription factors and kinases in the regulation of inflammatory genes in the lower airways and the effect of oxidative/nitrosative stress on cell survival and death, DNA damage and repair and glucocorticoid-resistance in the lung of patients with asthma and COPD.

I have been particularly interested in the regulation of the activity of transcription factors involved in modulating airway and lung inflammation (AP-1, NF- κ B, STAT1, STAT3) and Th1/Tc1/Th2/Tc2/Th17/Treg differentiation (GATA-3, STAT4, STAT6, T bet, RORC2, erm, Foxp3) in primary cells and tissues from the site of disease in asthma and COPD and tuberculosis and pulmonary hypertension and how these transcription factors modulate chromatin remodeling (HATs/HDACs balance).

More recently I have been investigating the lung of patients with stable COPD and control subjects the kinases involved in causing glucocorticoid resistance and the autoimmunity mechanisms involved in the progression of the disease.

My studies have already been shown to be relevant to explain *in vivo* the mechanism of action of many drugs (such as glucocorticoids and theophylline) commonly used for the treatment of asthma and COPD.

In the latest decade I also have been involved in many studies to investigate *in vitro*, in animal models and in human subjects the causes and the molecular mechanisms of asthma and COPD exacerbations, particularly in the human model of rhinovirus induced asthmatic exacerbations.

My latest research interests are concentrated on characterizing the stem cells involved in COPD lung repair/fibrogenesis/oncogenesis and on the molecular links between DNA damage and repair and lung inflammation and carcinogenesis in COPD and IPF.

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52 (www.scopus.com)

60 (<https://scholar.google.com/citations?user=iAKMCWwAAAAJ&hl=en&oi=ao>)

LIST OF PUBLICATIONS

a. Publications in peer-reviewed Journals listed in PubMed(<http://www.ncbi.nlm.nih.gov/pubmed/?term=caramori+g>) and/or (<https://scholar.google.com/citations?user=iAKMCWwAAAAJ&hl=en&oi=ao>)

[Scopus Author ID: 7003847659](#)

Orcid ID: orcid.org/0000-0002-9807-327X

Rank 331 in Top Italian Scientists in Clinical Sciences (https://topitalianscientists.org/tis/4093/Gaetano_Caramori_Top_Italian_Scientist_in_Clinical_Sciences)

1. **Caramori G**, Fabbri L. Asthma death. *Monaldi Archiv Chest Dis* 1995;50:256-257.
2. Fabbri L, **Caramori G**, Cosma P, Ciaccia A. Methotrexate in the treatment of systemic glucocorticoid dependent severe persistent asthma: a word of caution. *Monaldi Archiv Chest Dis* 1996;51:130-137.
3. Fabbri LM, Piattella M, **Caramori G**, Ciaccia A. Oral versus inhaled antiasthmatic therapy: pro, cons and combinations. *Drugs* 1996;52(suppl 6):20-28.
4. Fabbri LM, **Caramori G**, Beghè B, Ciaccia A. Role of leukotrienes in asthma pathogenesis. *Monaldi Archiv Chest Dis* 1996;51:548-555.
5. Ciaccia A, **Caramori G**, Ferrari M, Facchini FM, Fabbri L. Pulmonary vasculitis: classification, clinical features and management. *Clin Rev Allergy Immunol* 1997;15:73-95.
6. Mapp CM, Lucchini RE, Facchini F, Turato G, Saetta M, **Caramori G**, Ciaccia A, Maestrelli P, Springall DR, Polak JM, Fabbri LM. Increased VIP-positive nerve fibers in the mucous glands of subjects with chronic bronchitis. *Am J Respir Crit Care* 1997;156:1963-1968.
7. Fugagnoli A, Castelletti ML, **Caramori G**, Romagnoli M, Fabbri LM, Ciaccia A. Subcutaneous emphysema of the chest wall: a case with unusual presentation. *Monaldi Archiv Chest Dis* 1997;52:447-449.
8. Fabbri LM, **Caramori G**, Beghè B, Papi A, Ciaccia A. Physiologic consequences of long-term inflammation. *Am J Respir Crit Care* 1998;157(suppl):S195-S198.
9. Fabbri LM, **Caramori G**, Beghè B, Papi A, Ciaccia A. Chronic obstructive pulmonary disease international guidelines. *Curr Opin Pulm Med* 1998;4:76-84.
10. Fabbri LM, Beghè B, **Caramori G**, Papi A, Saetta M. Similarities and discrepancies between exacerbations of asthma and chronic obstructive pulmonary disease. *Thorax* 1998;53:803-808.

11. Aleotti A, Cervellati F, Bovolenta MR, Zago S, Orvieto E, **Caramori G**, Bezzi T. Birbeck granules: contribution to the comprehension of intracytoplasmic evolution. *J Submicrosc Cytol Pathol* 1998;30:295-298. (currently the Journal has merged with, and continued as, *Ultrastructural Pathology*)
12. Lim S, Fischer A, Oates T, Groneburg D, **Caramori G**, Mattos W, Adcock IM, Barnes PJ, Chung KF. Expression of heme-oxygenase isoenzymes 1 and 2 in normal and asthmatic airways: effects of inhaled corticosteroids. *Am J Respir Crit Care* 2000;162:1912-1918.
13. Ito K, Lim S, **Caramori G**, Chung K, Barnes PJ, Adcock IM. Cigarette smoking reduces histone deacetylase 2 expression, enhances cytokine expression and inhibits glucocorticoid actions in alveolar macrophages. *FASEB J* 2001;15:1110-1112. The Full-length version of this article is also available, published online February 5, 2001 as doi:10.1096/fj.00-0432fje. Available online <http://www.fasebj.org/>
14. Di Stefano A, Capelli A, Lusuardi M, **Caramori G**, Balbo P, Ioli F, Balbi B, Chung KF, Adcock IM, Barnes PJ, Donner CF. Decreased T-lymphocyte infiltration in bronchial biopsies of subjects with severe chronic obstructive pulmonary disease. *Clin Exp Allergy* 2001;31:893-902.
15. Pasquini C, Braccioni F, Calia N, Ravenna F, Castelletti ML, Papi A, **Caramori G**, Ciaccia A. Congenital diaphragmatic hernia simulating a pleural liposarcoma. *Monaldi Archiv Chest Dis* 2001;56:121-123.
16. **Caramori G**, Lim S, Ito K, Tomita K, Oates T, Jazwari E, Chung K, Barnes PJ, Adcock IM. GATA transcription factors expression in T cells, monocytes and bronchial biopsies of normal and asthmatic subjects. *Eur Respir J* 2001;18:466-473.
17. Lim S, Tomita K, **Caramori G**, Jatakanon A, Oliver B, Keller A, Adcock IM, Chung K, Barnes PJ. Low-dose theophylline reduces eosinophilic inflammation but not exhaled nitric oxide in mild asthma. *Am J Respir Crit Care* 2001;164:273-276. Erratum in: *Am J Respir Crit Care* 2004;170:345. Carramori G [corrected to Caramori G].
18. Adcock IM, **Caramori G**. Cross-talk between pro-inflammatory transcription factors and glucocorticoids. *Immunol Cell Biol* 2001;79:376-384.
19. Oliver B, Tomita K, **Caramori G**, Keller A, Kelly C, Meah S, Adcock IM, Chung KF, Barnes PJ, Lim S. Low-dose theophylline does not exert its anti-inflammatory effects in mild asthma through upregulation of interleukin-10 in alveolar macrophages. *Allergy* 2001;56:1087-1090.
20. Ravenna F, **Caramori G**, Papi A, Benea G, Adcock IM, Barnes PJ, Ciaccia A. An unusual case of congenital short trachea with very long bronchi mimicking bronchial asthma. *Thorax* 2002;57:372-373.
21. Ito K*, **Caramori G***, Lim S, Oates T, Chung KF, Barnes PJ, Adcock IM. Expression and activity of histone deacetylases in human asthmatic airways. *Am J Respir Crit Care* 2002;166:392-396. *Both Authours contributed equally to this work.
22. Ito K, Lim S, **Caramori G**, Cosio B, Chung KF, Adcock IM Barnes PJ,. A molecular mechanism of action of theophylline: Induction of histone deacetylase activity to decrease inflammatory gene expression. *P Natl Acad Sci USA* 2002;99:8921-8926.
23. Tomita K, **Caramori G**, Lim S, Ito K, Hanazawa T, Oates T, Jazrawi E, Chung KF, Barnes PJ, Adcock IM. Increased p21^{CIP1/WAF1} and bcl-xL expression and reduced apoptosis in alveolar macrophages from smokers. *Am J Respir Crit Care* 2002;166:724-731.
24. Di Stefano A, **Caramori G**, Oates T, Capelli A, Lusuardi M, Gnemmi I, Ioli F, Balbo P, Brun P, Chung KF, Donner CF, Barnes PJ, Adcock IM. Increased expression of NF-κB in bronchial biopsies from smokers and patients with chronic obstructive pulmonary disease (COPD). *Eur Resp J* 2002;20:556-563.
25. Eynott P, Groneberg D, **Caramori G**, Adcock I, Donnelly L, Kharitonov S, Barnes P, Chung K. Role of nitric oxide in allergic inflammation and bronchial hyperresponsiveness. *Eur J Pharmacol* 2002;452:123-133.

26. Roche N, Stirling RG, Lim S, Oliver BG, Oates T, Jazrawi E, **Caramori G**, Chung KF. Effect of acute and chronic inflammatory stimuli on expression of protease-activated receptors 1 and 2 in alveolar macrophages. *J Allergy Clin Immunol* 2003;111:367-373.
27. Paredi P, **Caramori G**, Cramer D, Ward S, Ciaccia A, Papi A, Kharitonov S, Barnes PJ. Slower rise of exhaled breath temperature in chronic obstructive pulmonary disease. *Eur Respir J* 2003;21:439-443.
28. **Caramori G**, Romagnoli M, Casolari P, Bellettato G, Casoni G, Boschetto P, Chung KF, Barnes PJ, Adcock IM, Ciaccia A, Fabbri LM, Papi A. Nuclear localisation of p65 in sputum macrophages but not in sputum neutrophils during COPD exacerbations. *Thorax* 2003;58:348-351.
29. Braccioni F, Calia N, Castelletti ML, Ravenna F, Pasquini C, Cavallesco G, Grandi E, **Caramori G**, Papi A, Ciaccia A. Pulmonary blastoma: case report in an adult. *Monaldi Archiv Chest Dis* 2002;57:318-320.
30. **Caramori G**, Adcock IM. Pharmacology of airway inflammation in asthma and COPD. *Pulm Pharmacol Ther* 2003;16:247-277.
31. **Caramori G**, Papi A. Oxidants and asthma. *Thorax* 2004;59:170-173.
32. Lim S, **Caramori G**, Tomita K, Jazrawi E, Oates T, Chung KF, Barnes PJ, Adcock IM. Differential expression of IL-10 receptor by epithelial cells and alveolar macrophages. *Allergy* 2004;59:505-514.
33. Atzori L, **Caramori G**, Lim S, Jazrawi E, Donnelly L, Adcock I, Barnes PJ, Chung KF. Effect of cigarette smoking on haem-oxygenase expression in alveolar macrophages. *Respir Med* 2004;98:530-535.
34. Di Stefano A, **Caramori G**, Capelli A, Gnemmi I, Ricciardolo FL, Oates T, Balbi B, Lusuardi M, Donner CF, Chung KF, Barnes PJ, Adcock IM. STAT4 activation in smokers and patients with chronic obstructive pulmonary disease. *Eur Respir J* 2004;24:78-85.
35. Adcock IM, **Caramori G**. Kinase targets and inhibitors for the treatment of airway inflammatory diseases: the next Generation of drugs for severe asthma and COPD?. *Biodrugs* 2004;18:167-180.
36. **Caramori G**, Ito K, Adcock IM. Targeting Th2 cells in asthmatic airways. *Curr Drug Targets Inflamm Allergy* 2004;3:243-255.
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39. **Caramori G**, Ito K, Adcock IM. Transcription factors in asthma and COPD. *IDrugs* 2004;7:764-770.
40. Di Stefano A, **Caramori G**, Ricciardolo FLM, Capelli A, Adcock IM, Donner CF. Cellular and molecular mechanisms in chronic obstructive pulmonary disease: an overview. *Clin Exp Allergy* 2004;34:1156-1167.
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44. **Caramori G**, Pandit A, Papi A. Is there a difference between chronic airway inflammation in chronic severe asthma and chronic obstructive pulmonary disease?. *Curr Opin Allergy Clin Immunol* 2005;5:77-83.

45. Contoli M, **Caramori G**, Mallia P, Johnston S, Papi A. Mechanisms of respiratory virus-induced asthmatic exacerbations. *Clin Exp Allergy* 2005;35:137-145.
46. Ito K, Ito M, Elliott WM, Cosio M, **Caramori G**, Kon OM, Barczyk A, Hayashi S, Adcock IM, Hogg JC, Barnes PJ. Decreased histone deacetylase activity in chronic obstructive pulmonary disease: relationship to disease severity. *N Engl J Med* 2005;352:1967-1976.
47. Psarras S, **Caramori G**, Contoli M, Papadopolous N, Papi A. Oxidants in asthma and chronic obstructive pulmonary disease (COPD). *Curr Pharm Des* 2005;11:2053-2062.
48. **Caramori G**, Bettoncelli G, Tosatto R, Arpinelli F, Visonà G, Invernizzi G, Gerace A, Adcock IM, Ciaccia A. Underuse of spirometry by general practitioners for the diagnosis of COPD in Italy. *Monaldi Arch Chest Dis* 2005;63:6-12.
49. **Caramori G**, Adcock IM. Anti-inflammatory mechanisms of glucocorticoids targeting granulocytes. *Curr Drug Targets Inflamm Allergy* 2005;4:455-63.
50. **Caramori G**, Fabbri M, Paioli D, Falcone F, Severino C, Felisatti G, Arar O, Adcock IM, Chung KF, Barnes PJ, Ciaccia A, Papi A. Asthma is not a common cause of severe chronic respiratory failure in non-smokers: ALOT study. *Monaldi Arch Chest Dis* 2005;63:84-87.
51. **Caramori G**, Calia N, Pasquini C, Arar O, Ravenna F, Guzzinati I, Boniotti A, Cavazzini L, Ciaccia A, Cavallesco G, Papi A. Ectopic thymoma simulating a pericardial cyst: case report. *Monaldi Arch Chest Dis* 2005;63:230-233.
52. Ricciardolo FLM, **Caramori G**, Ito K, Capelli A, Brun P, Abatangelo G, Papi A, Chung KF, Adcock IM, Barnes PJ, Donner CF, Rossi A, Di Stefano A. Nitrosative stress in the bronchial mucosa of severe chronic obstructive pulmonary disease. *J Allergy Clin Immunol* 2005;116:1028-35.
53. Xie S, Issa R, Sukkar MB, Oltmanns U, Bhavsar PK, Papi A, **Caramori G**, Adcock I, Chung KF. Induction and regulation of matrix metalloproteinase-12 in human airway smooth muscle cells. *Respir Res* 2005;6:148.
54. Varani K*, **Caramori G***, Vincenzi F, Adcock IM, Casolari P, Leung E, MacLennan S, Gessi S, Morello S, Barnes PJ, Ito K, Chung KF, Cavallesco G, Azzena G, Papi A*, Borea PA*. Alteration of adenosine receptors in patients with chronic obstructive pulmonary disease. *Am J Respir Crit Care* 2006;173:398-406. *Both Authors contributed equally to this work.
55. Papi A, Bellettato CM, Braccioni F, Romagnoli M, Casolari P, **Caramori G**, Fabbri LM, Johnston SL. Infections and airway inflammation in chronic obstructive pulmonary disease severe exacerbations. *Am J Respir Crit Care* 2006;173:1114-1121.
56. Adcock IM, **Caramori G**, Ito K. New insights into the molecular mechanisms of corticosteroids actions. *Curr Drug Targets* 2006;7:649-660.
57. **Caramori G**, Papi A. Smoking history effect on peripheral lung inflammation and gene transcription in chronic obstructive pulmonary disease. *Am J Respir Crit Care Med* 2006;174:2-3.
58. **Caramori G**, Ito K, Contoli M, Di Stefano A, Johnston SL, Adcock IM, Papi A. Molecular mechanisms of respiratory virus-induced asthma and COPD exacerbations and pneumonia. *Curr Med Chem* 2006;13:2267-90.
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61. **Caramori G**, Ito K, Papi A, Adcock IM. Interactions between long-acting β 2-agonists and glucocorticoids. *Drug Discovery Today: Therapeutic Strategies* 2006;3:261-268.
62. Mallia P, Contoli M, **Caramori G**, Johnston SL, Papi A. Exacerbations of asthma and chronic obstructive pulmonary disease (COPD). Focus on virus induced exacerbations. *Curr Pharm Des* 2007;13:73-97.

63. Ito K, Caramori G, Adcock IM. Therapeutic potential of phosphatidylinositol 3-kinase inhibitors in inflammatory respiratory disease. *J Pharmacol Exp Ther* 2007;321:1-8.
64. Romagnoli M, **Caramori G**, Braccioni F, Ravenna F, Barreiro E, Siafakas NM, Vignola AM, Chanez P, Fabbri LM, Papi A and the ENFUMOSA Study Group. Near-fatal asthma phenotype in the ENFUMOSA Cohort. *Clin Exp Allergy* 2007;37:552-557.
65. **Caramori G**, Bettoncelli G, Carone M, Tosatto R, Di Blasi P, Pieretto A, Invernizzi G, Novelletto BF, Ciaccia A, Adcock IM, Papi A. Degree of control of physician-diagnosed asthma and COPD in Italy. *Monaldi Arch Chest Dis* 2007;67:15-22.
66. Contoli M, **Caramori G**, Mallia P, Papi A, Johnston SL. A human rhinovirus model of chronic obstructive pulmonary disease exacerbations. *Contrib Microbiol* 2007;14:101-112.
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21st of February 2022

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Prof Gaetano Caramori

