

## **Breve curriculum vitae del Prof. Carlo Vancheri.**

**CARLO VANCHERI nato il 9/5/1957 ASTI**

### **Formazione:**

- Laurea in Medicina e Chirurgia, Università' di Catania, 1983
- Specializzazione in Malattie dell'Apparato Respiratorio, Università' di Catania, 1987
- Dottorato di Ricerca in Broncopneumologia, 1988-1992
- "Research Fellow" del "Medical Research Council" del Canada presso la McMaster University, Hamilton, Canada, dal 1986 al 1988.

### **Principali attività e responsabilità:**

- Professore ordinario in Malattie dell'Apparato Respiratorio – Università degli Studi di Catania
- Direttore del corso di Dottorato di Ricerca in Malattie dell'Apparato Respiratorio dal 2008 al 2013 - Università degli Studi di Catania
- Direttore della Scuola di Specializzazione in Allergologia ed Immunologia Clinica dal 2005 al 2008 - Università degli Studi di Catania
- Dirigente Medico presso l'Istituto di Malattie Respiratorie dal 1992 al 2001
- Professore Associato in Malattie Apparato respiratorio dal 1992-2010 – Università degli Studi di Catania
- Dirigente del Laboratorio di Medicina Respiratoria Sperimentale
- Dirigente del Centro Regionale per le Malattie Rare del Polmone

### **Insegnamenti:**

- Scuola di Medicina e Chirurgia - Università degli Studi di Catania
- Corso di Dottorato di Ricerca in Malattie dell'Apparato Respiratorio - Università degli Studi di Catania
- Scuola di Specializzazione in Malattie dell'Apparato Respiratorio - Università degli Studi di Catania
- Scuola di Specializzazione di Allergologia ed Immunologia Clinica
- Scuola di Specializzazione di Malattie Cardiovascolari
- Scuola per tecnici di radiologia
- Scuola per tecnici di fisiopatologia cardiovascolare

### **Pubblicazioni**

170 di cui 94 su riviste internazionali

### **Società Scientifiche di appartenenza:**

- American Thoracic Society, European Respiratory Society, Società Italiana di Medicina Respiratoria, Presidente dell'Associazione Italiana Colture Cellulari (SiMeR). Membro della commissione esecutiva del registro italiano per le malattie polmonari interstiziali (RIPID).

### **Attività di referee**

- American Journal of Respiratory and Critical Care Medicine
- European Respiratory Journal
- Respiratory Medicine
- Sarcoidosis
- Respiratory Research

## Posizione accademica: Professore Ordinario

## Settore scientifico-disciplinare: MED/10

## Titoli accademici

### Principali insegnamenti tenuti:

- Scuola di Medicina e Chirurgia - Università degli Studi di Catania
- Corso di Dottorato di Ricerca in Malattie dell'Apparato Respiratorio - Università degli Studi di Catania
- Scuola di Specializzazione in Malattie dell'Apparato Respiratorio - Università degli Studi di Catania
- Scuola di Specializzazione di Allergologia ed Immunologia Clinica
- Scuola di Specializzazione di Malattie Cardiovascolari
- Scuola per tecnici di radiologia
- Scuola per tecnici di fisiopatologia cardiovascolare

### Pubblicazioni più significative:

1. RICHELDI L, COLLARD HR, DU BOIS RM, JENKINS G, KOLB M, MAHER TM, RAGHU G, **VANCHERI C**, LAURENT GJ. (2013) Mapping the future for pulmonary fibrosis. EUR RESPIR J. Vol 16. [Epub ahead of print]
2. KORFEI M, VON DER BECK D, HENNEKE I, MARKART P, RUPPERT C, MAHAVADI P, GHANIM B, KLEPETKO W, FINK L, MEINERS S, KRÄMER OH, SEEGER W, **VANCHERI C**, GUENTHER A. (2013) Comparative proteome analysis of lung tissue from patients with idiopathic pulmonary fibrosis (IPF), non-specific interstitial pneumonia (NSIP) and organ donors. J PROTEOMICS. Vol.85C:109-128. doi: 10.1016/j.jprot.2013.04.033. [Epub ahead of print]
3. FURNO DL, PELLITTERI R, GRAZIANO AC, GIUFFRIDA R, **VANCHERI C**, GILI E, CARDILE V. (2013) Olfactory Ensheathing Cells (OEC)- and Neuroblastoma B104 Cell Line-Conditioned Medium Promotes Differentiation of Human Mesenchymal Stem Cells from Adipose Tissue toward a Neural Phenotype. J CELL PHYSIOL. Vol. 15 doi: 10.1002/jcp.24386. [Epub ahead of print]
4. NUNNARI G, PINZONE MR, **VANCHERI C**, PALERMO F, CACOPARDO B. (2013) Interferon- $\gamma$  and interleukin-17 production from PPD-stimulated PBMCs of patients with pulmonary tuberculosis. CLIN INVEST MED Vol.36(2):E64-71.
5. CONTE E, GILI E, FRUCIANO M, KORFEI M, FAGONE E, IEMMOLO M, LO FURNO D, GIUFFRIDA R, CRIMI N, GUENTHER A, **VANCHERI C**. (2013) PI3K p110 $\gamma$  overexpression in idiopathic pulmonary fibrosis lung tissue and fibroblast cells: in vitro effects of its inhibition. LAB INVEST. Vol.93(5):566-76.
6. CONTE E, GENOVESE T, GILI E, ESPOSITO E, IEMMOLO M, FRUCIANO M, FAGONE E, PISTORIO MP, CRIMI N, CUZZOCREA S, **VANCHERI C**. (2013) Thymosin  $\beta$ 4 protects C57BL/6 mice from bleomycin-induced damage in the lung. EUR J CLIN INVEST. Vol.43(3):309-15.
7. **VANCHERI C**, DU BOIS RM. (2013) A progression-free end-point for idiopathic pulmonary fibrosis trials: lessons from cancer. EUR RESPIR J. Vol. 41(2):262-9.

8. WELLS AU, BEHR J, COSTABEL U, COTTIN V, POLETTI V, RICHELDI L; ALBERA C, ANCOCHEA J, ANTONIOU KM, BONELLA F, BONNIAUD P, BOUROS D, BRESSER P, CORDIER JF, CRESTANI B, DOMAGALA-KULAWIK J, DRENT M, EGAN JJ, GEISER T, GRUNEWALD J, GRUTTERS J, GUDMUNDSSON G, GUENTHER A, HARAI S, HARRISON NK, HIRANI N, HODGSON U, KAHLER CM, KEANE MP, KITER G, KNEUSSL M, MAHER TM, MOGULKOC N, MULLER-QUERNHEIM J, NEUROHR C, NUNES H, PARFREY H, PEROS-GOLUBICIC T, POLYCHRONOPOULOS V, PREVOT G, RENZONI ER, ROBALO CORDEIRO C, SALTINI C, SKOLD M, SPAGNOLO P, THOMEER M, TOMASSETI S, VALEYRE D, **VANCHERI C**, WALLAERT B, WUYTS W, XAUBET A. (2012). Hot of the breath: mortality as a primary end-point in IPF treatment trials: the best is the enemy of the good. *THORAX*. Vol. 67(11):938-40.
9. CONTE E, GENOVESE T, GILI E, ESPOSITO E, IEMMOLO M, FRUCIANO M, FAGONE E, PISTORIO MP, CRIMI N, CUZZOCREA S, **VANCHERI C**. (2012). Protective effects of thymosin  $\beta$ 4 in a mouse model of lung fibrosis. *ANN N Y ACAD SCI*. Vol. 1269:69-73.
10. **VANCHERI C**. (2012) Idiopathic pulmonary fibrosis: an altered fibroblast proliferation linked to cancer biology. *PROC AM THORAC SOC*. Vol. 9(3):153-7.
11. CONTE E, FRUCIANO M, FAGONE E, GILI E, CARACI F, IEMMOLO M, CRIMI N, **VANCHERI C**. (2011). Inhibition of PI3K prevents the proliferation and differentiation of human lung fibroblasts into myofibroblasts: the role of class I P110 isoforms. *PLoS One*. Vol. 6(10):e24663.
12. GUENTHER A; BONNIAUD P, CAMUS P, CHAMBERS R, CRESTANI B, EICKELBERG O, KLEPETKO W, LAURENT G, PREISSNER KT, SCHMITZ G, SCHULTZE J, STUMPF P, **VANCHERI C**, WELLS A. (2011). The European IPF Network: towards better care for a dreadful disease. *EUR RESPIR J*. Vol. 37(4):747-8.
13. FAGONE E, CONTE E, GILI E, FRUCIANO M, PISTORIO MP, LO FURNO D, GIUFFRIDA R, CRIMI N, **VANCHERI C**. (2011). Resveratrol inhibits transforming growth factor- $\beta$ -induced proliferation and differentiation of ex vivo human lung fibroblasts into myofibroblasts through ERK/Akt inhibition and PTEN restoration. *EXP LUNG RES*. Vol. 37(3):162-74.
14. BOCCHINO M, AGNESE S, FAGONE E, SVEGLIATI S, GRIECO D, **VANCHERI C**, GABRIELLI A, SANDUZZI A, AVVEDIMENTO EV. (2010). Reactive oxygen species are required for maintenance and differentiation of primary lung fibroblasts in idiopathic pulmonary fibrosis. *PLoS One*. Vol. 16;5(11):e14003
15. GAROZZO R, SORTINO MA, **VANCHERI C**, CONDORELLI DF. (2010) Antiproliferative effects induced by guanine-based purines require hypoxanthine-guanine phosphoribosyl transferase activity. *BIOL CHEM*. Vol. 391(9):1079-89.
16. NUNNARI G, **VANCHERI C**, GILLI E, MIGLIORE S, PALERMO F, LA ROSA C, NICOTRA P, RUSSO R, CACOPARDO B. (2010) Circulating fibrocytes as a marker of liver fibrosis in chronic hepatitis C. *FRONT BIOSCI (ELITE ED)*. Vol 1;2:1241-5.
17. MASTRUZZO C, CONTRAFATTO MR, CRIMI C, PALERMO F, **VANCHERI C**, CRIMI N. (2010) Acute additive effect of montelukast and beclomethasone on AMP induced bronchoconstriction. *RESPIR MED*. Vol. 104(10):1417-24.
18. **VANCHERI C**, FAILLA M, CRIMI N, RAGHU G. (2010). Idiopathic pulmonary fibrosis: a disease with similarities and links to cancer biology. *EUR RESPIR J*. Vol. 35 (3) p.496-504.
19. FAILLA M, GENOVESE T, MAZZON E, FRUCIANO M, FAGONE E, GILI E, BARERA A, LA ROSA C, CONTE E, CRIMI N, CUZZOCREA S, **VANCHERI C**. (2009). 16,16-Dimethyl Prostaglandin E2 Efficacy on Prevention and Protection from Bleomycin-induced Lung Injury and Fibrosis. *AMERICAN JOURNAL OF RESPIRATORY CELL AND MOLECULAR BIOLOGY*, vol. 41; p. 50-8. (I.F. 4.477)

20. CARACI F, GILI E, CALAFIORE M, FAILLA M, LA ROSA C, CRIMI N, SORTINO MA, NICOLETTI F, COPANI A, **VANCHERI C.** (2008). TGF-beta1 targets the GSK-3beta/beta-catenin pathway via ERK activation in the transition of human lung fibroblasts into myofibroblasts. *PHARMACOLOGICAL RESEARCH*, vol. 57; p. 274-282. (I.F. 3.287)
21. GALLELLI L, FALCONE D, PELAIA G, RENDA T, TERRACCIANO R, MALARA N, VATRELLA A, SANDUZZI A, D'AGOSTINO B, ROSSI F, **VANCHERI C.**, MASELLI R, MARSICO SA, SAVINO R (2008). Interleukin-6 receptor superantagonist Sant7 inhibits TGF-beta-induced proliferation of human lung fibroblasts. *CELL PROLIFERATION*, vol. 41; p. 393-407. (I.F. 2.423)
22. GUENTHER A, EICKELBERG O, PREISSNER KT, CHAMBERS R, LAURENT G, WELLS A, CRESTANI B, **VANCHERI C.**, BONNIAUD P, CAMUS P, SCHMITZ G, KLEPETKO W, SCHULTZE J, VOSSMEYER D, STUMPF P (2008). International registry for idiopathic pulmonary fibrosis. *THORAX*, vol. 63; p. 841. (I.F. 7.069)
23. MASTRUZZO C, PERRACCHIO G, POIDOMANI G, ROMANO M, CRIMI N, **VANCHERI C.** (2008). Subsegmental pulmonary embolism: value of thoracic ultrasound for diagnosis and follow-up. *INTERNAL MEDICINE JOURNAL*, vol. 47; p. 1415-1417. (I.F. 2.027)
24. CUZZOCREA S, GENOVESE T, FAILLA M, VECCHIO G, FRUCIANO M, MAZZON E, DI PAOLA R, MUIÀ C, LA ROSA C, CRIMI N, RIZZARELLI E, **VANCHERI C.** (2007). Protective effect of orally administered carnosine on bleomycin-induced lung injury. *AMERICAN JOURNAL OF PHYSIOLOGY. LUNG CELLULAR AND MOLECULAR PHYSIOLOGY*, vol. 292(5); p. 1095-1104. (I.F. 4.214)
25. FAILLA M, CRIMI N, **VANCHERI C.** (2007). Exhaled bronchial cysteinyl leukotrienes in allergic patients. *CURRENT OPINION IN ALLERGY AND CLINICAL IMMUNOLOGY*, vol. 7(1); p. 25-31. (I.F. 3.378)
26. FAILLA M, MASTRUZZO C, CRIMI N, **VANCHERI C.** (2007). Alte e basse vie aeree: evidenza di integrazione funzionale dei due distretti in allergologia respiratoria. *MINERVA PNEUMOLOGICA*, vol. 46; p. 135-142. (I.F. 3.378)
27. FAILLA M, MONCADA R, MASTRUZZO C, CRIMI N, VANCHERI C. (2007). Metodiche controversie in allergologia: la medicina tradizionale e quella alternativa. *MINERVA PNEUMOLOGICA*, vol. 46; p. 39-42. (I.F. 3.378)
28. LUPO G, ANFUSO CD, RAGUSA N, TIROLO C, MARCHETTI B, GILI E, LA ROSA C, **VANCHERI C.** (2007). Activation of cytosolic phospholipase A2 and 15-lipoxygenase by oxidized low-density lipoproteins in cultured human lung fibroblasts. *BIOCHIMICA ET BIOPHYSICA ACTA*, vol. 1771(4); p. 522-532. (I.F. 3.539)
29. MASTRUZZO C, **VANCHERI C.**, LI MURA D, POLETTI V, FAILLA M, CRIMI N (2007). A case of pulmonary Langerhans cell histiocytosis in a young woman with coeliac disease. *SWISS MEDICAL WEEKLY*, vol. 137(21-22); p. 326-327. (I.F. 1.310)
30. MERLO S, CALAFIORE M, **VANCHERI C.**, LUIGI CANONICO P, COPANI A, SORTINO MA (2007). Astrocyte-like cells as a main target for estrogen action during neuronal differentiation. *MOLECULAR AND CELLULAR NEUROSCIENCES*, vol. 34; p. 562-570. (I.F. 3.994)
31. NIGRO L, RIZZO ML, **VANCHERI C.**, LA ROSA R, MASTRUZZO C, TOMASELLI V, RAGUSA A, MANUELE R, CACOPARDO B (2007). CCR5 and CCR3 expression on T CD3+ lymphocytes from HIV/Leishmania co-infected subjects. *MEDICAL MICROBIOLOGY AND IMMUNOLOGY*, vol. 196(4); p. 253-255. (I.F. 1.537)
32. PELAIA G, GALLELLI L, D'AGOSTINO B, VATRELLA A, CUDA G, FRATTO D, RENDA T, GALDERISI U, PIEGARI E, CRIMI N, ROSSI F, CAPUTI M, COSTANZO FS, **VANCHERI C.**, MASELLI R, MARSICO SA (2007). Effects of TGF-beta and glucocorticoids on map kinase phosphorylation, IL-6/IL-11 secretion and cell proliferation in primary cultures of human lung fibroblasts. *JOURNAL OF CELLULAR PHYSIOLOGY*, vol. 210; p. 489-497. (I.F. 3.643)

33. CALAFIORE M, BATTAGLIA G, ZAPPALA A, TROVATO-SALINARO E, CARACI F, CARUSO M, **VANCHERI C.**, SORTINO M.A., NICOLETTI F, COPANI A (2006). Progenitor cells from the adult mouse brain acquire a neuronal phenotype in response to beta-amyloid. *NEUROBIOLOGY OF AGING*, vol. 27; p. 606-613. (I.F. 5.599)
34. DI PIETRO C, PIRO S, TABBI G, RAGUSA M, DI PIETRO V, ZIMMITTI V, CUDA F, ANELLO M, CONSOLI U, SALINARO ET, CARUSO M, **VANCHERI C.**, CRIMI N, SABINI MG, CIRRONE GA, RAFFAELE L, PRIVITERA G, PULVIRENTI A, GIUGNO R, FERRO A, CUTTONE G, NIGRO SL, PURRELLO R, PURRELLO F, PURRELLO M (2006). Cellular and molecular effects of protons: Apoptosis induction and potential implications for cancer therapy. *APOPTOSIS*, vol. 11; p. 57-66. (I.F. 3.421)
35. FAILLA M, BIONDI G, PROVVIDENZA PISTORIO M, GILI E, MASTRUZZO C, **VANCHERI C.**, CRIMI N (2006). Intranasal steroid reduces exhaled bronchial cysteinyl leukotrienes in allergic patients. *CLINICAL AND EXPERIMENTAL ALLERGY*, vol. 36; p. 325-330. (I.F. 3.660)
36. FAILLA M, GENOVESE T, MAZZON E, GILI E, MUIA C, SORTINO M, CRIMI N, CAPUTI AP, CUZZOCREA S, **VANCHERI C.** (2006). Pharmacological inhibition of leukotrienes in an animal model of bleomycin-induced acute lung injury. *RESPIRATORY RESEARCH*, vol. 21; p. 137-149. (I.F. 2.335)
37. MERLO S, CALAFIORE M, **VANCHERI C.**, LUIGI CANONICO P, COPANI A., SORTINO MA (2006). Astrocyte-like cells as a main target for estrogen action during neuronal differentiation. *MOLECULAR AND CELLULAR NEUROSCIENCES*, vol. Dec. 28; p. 4C-12C. (I.F. 4.607)
38. PELAIA G, GALLELLI L, D'AGOSTINO B, VATRELLA A, CUDA G, FRATTO D, RENDA T, GALDERISI U, PIEGARI E, CRIMI N, ROSSI F, CAPUTI M, COSTANZO FS, **VANCHERI C.**, MASELLI R, MARSICO SA (2006). Effects of TGF-beta and glucocorticoids on map kinase phosphorylation, IL-6/IL-11 secretion and cell proliferation in primary cultures of human lung fibroblasts. *JOURNAL OF CELLULAR PHYSIOLOGY*, vol. 210; p. 489-497. (I.F. 3.638)
39. TROVATO-SALINARO A, TROVATO-SALINARO E, FAILLA M, MASTRUZZO C, TOMASELLI V, GILI E, CRIMI N, CONDORELLI DF, **VANCHERI C.** (2006). Altered intercellular communication in lung fibroblast cultures from patients with idiopathic pulmonary fibrosis. *RESPIRATORY RESEARCH*, vol. 27; p. 122-131. (I.F.2.335)
40. CRIMI N., MASTRUZZO C, VANCHERI C. (2005). Bradykinin and tachykinin-induced leukotriene release in airway virus infections. *AMERICAN JOURNAL OF RESPIRATORY AND CRITICAL CARE MEDICINE*, vol. 172; p. 511-512. (I.F. 8.689)
41. CRIMI N, MASTRUZZO C, PAGANO C, LISITANO N, PALERMO F, **VANCHERI C.** (2005). Montelukast protects against bradykinin-induced bronchospasm. *JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY*, vol. 115; p. 870-872. (I.F. 7.667)
42. GALLELLI L, PELAIA G, D'AGOSTINO B, CUDA G, VATRELLA A, FRATTO D, GIOFFRE V, GALDERISI U, DE NARDO M, MASTRUZZO C, SALINARO ET, MANISCALCO M, SOFIA M, CRIMI N, ROSSI F, CAPUTI M, COSTANZO FS, MASELLI R, MARSICO SA, **VANCHERI C.** (2005). Endothelin-1 induces proliferation of human lung fibroblasts and IL-11 secretion through an ET(A) receptor-dependent activation of map kinase. *JOURNAL OF CELLULAR BIOCHEMISTRY*, vol. 96; p. 858-868. (I.F. 3.591)
43. GENOVESE T, CUZZOCREA S, DI PAOLA R, FAILLA M, MAZZON E, SORTINO MA, FRASCA G, GILI E, CRIMI N, CAPUTI AP, **VANCHERI C.** (2005). Inhibition or knock out of inducible nitric oxide synthase result in resistance to bleomycin-induced lung injury. *Respir Res.* 2005 Jun 14;6(1):58. *RESPIRATORY RESEARCH*, vol. 14; p. 58-65. (I.F. 2.682)
44. GENOVESE T, CUZZOCREA S, DI PAOLA R, MAZZON E, MASTRUZZO C, CATALANO P, SORTINO M, CRIMI N, CAPUTI AP, THIEMERMANN C, **VANCHERI C.** (2005). Effect of rosiglitazone and 15-deoxy-Delta12,14-prostaglandin J2 on bleomycin-induced lung injury. *EUROPEAN RESPIRATORY JOURNAL*, vol. 25; p. 225-234. (I.F. 3.947)

45. MALAGUARNERA R, MANDARINO A, MAZZON E, VELLA V, GANGEMI P, **VANCHERI C.**, VIGNERI P, APOISI A, VIGNERI R., AND FRASCA F (2005). The p53-homologue p63 may promote thyroid cancer progression. *ENDOCRINE-RELATED CANCER*, vol. 12; p. 953-971. (I.F. 4.905)
46. PROIETTI L., MASTRUZZO C, PALERMO F, **VANCHERI C.**, LISITANO N, CRIMI N (2005). PREVALENCE OF RESPIRATORY SYMPTOMS, REDUCTION IN LUNG FUNCTION AND ALLERGIC SENSITIZATION IN A GROUP OF TRAFFIC POLICE OFFICERS EXPOSED TO URBAN POLLUTION. *MEDICINA DEL LAVORO*, vol. 96(1); p. 24-32. (I.F.
47. PROIETTI L, MASTRUZZO C, PALERMO F, **VANCHERI C.**, LISITANO N., CRIMI N (2005). Prevalence of respiratory symptoms, reduction in lung function and allergic sensitization in a group of traffic police officers exposed to urban pollution. *MEDICINA DEL LAVORO*, vol. 96; p. 24-32,
48. **VANCHERI C.**, GILI E, FAILLA M, MASTRUZZO C, SALINARO ET, LOFURNO D, PISTORIO MP, LA ROSA C, CARUSO M, CRIMI N (2005). Bradykinin differentiates human lung fibroblasts to a myofibroblast phenotype via the B2 receptor. *JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY*, vol. 116; p. 1242-1248. (I.F. 7.667)
49. **VANCHERI C.**, MASTRUZZO C, TOMASELLI V, BELLISTRI G, PISTORIO MP, GRECO LR, SALINARO ET, FAILLA M, CONTRAFATTO MR, CRIMI N (2005). THE EFFECT OF FEXOFENADINE ON EXPRESSION OF INTERCELLULAR ADHESION MOLECULE 1 AND INDUCTION OF APOPTOSIS ON PERIPHERAL EOSINOPHILS. *ALLERGY AND ASTHMA PROCEEDINGS*, vol. 26; p. 292-298. (I.F. 0,733)
50. **VANCHERI C.**, MASTRUZZO C, TROVATO-SALINARO E, GILI E, LO FURNO D, PISTORIO MP, CARUSO M, LA ROSA C, CRIMI C, FAILLA M, CRIMI N (2005). Interaction between human lung fibroblasts and T-lymphocytes prevents activation of CD4+ cells. *RESPIRATORY RESEARCH*, vol. 13; p. 103-113. (I.F. 2.682)