

**Curriculum Vitae**  
**Lucia Malaguarnera**

**INFORMAZIONI PERSONALI:**

**Affiliazione:** Dipartimento di Scienze Biomediche e Biotecnologiche, Università degli Studi di Catania, Scuola di Medicina, Via Santa Sofia, 97, Catania

**Telefono :** +39.095. 4781272

**Fax :** +39.095. 4781272

**Data di nascita:**

**Luogo di nascita:** †

**Stato civile:** †

**TITOLI ACCADEMICI:**

**14.11. 1985** *Laurea* con lode in Medicina e Chirurgia presso l'Università degli Studi di Catania  
**1985** *Abilitazione* all'esercizio della Professione di Medico-Chirurgo.

**30.04.1993** consegue il titolo di Dottore di Ricerca

**20.07.1993** *Specializzazione* con lode in Biologia Clinica, Facoltà di Medicina e Chirurgia, presso l'Università degli Studi di Catania

**09.10.1997** *Specializzazione* con lode in Oncologia, Facoltà di Medicina e Chirurgia, presso l'Università degli Studi di Catania

**ESPERIENZE PROFESSIONALI:**

- 1985 - 1989 svolge attività di ricerca presso l'Istituto di Patologia Generale, dell'Università degli studi di Catania
- 1.10.1989 - 30. 06. 1991 attività di ricerca presso Temple University School – Department of Pathology and Fels Cancer Institute for Molecular Biology and Cancer Research – Philadelphia, USA
- 1. 07. 1991 – 31.09. 92 Research Associate Jefferson University – Jefferson Cancer Institute, Department of Microbiology and Immunology – Philadelphia – USA
- 1. 06 – 31 .08. 2001 Visiting Professor New York Medical College Department of Pharmacology, Valhalla – New York-USA
- 1. 10– 22.12.2001 Visiting Professor New York Medical College Department of Pharmacology, Valhalla – New York-USA
- 1. 06– 31.08.2002 Visiting Professor, New York Medical College Department of Pharmacology, Valhalla – New York-USA

### **Collaborazioni Internazionali:**

- Coordinatore degli accordi ERASMUS con Medical University of Gdańsk Dębinki, Danzica, Polonia
- Collaborazione con il prof. Tony Passaniti Department of Biochemistry & Molecular Biology, Marlene & Stewart Greenebaum Comprehensive Cancer Center University of Maryland School of Medicine
- Collaborazione con la Prof. Zorena, Department of Immunobiology and Environment Microbiology Medical University of Gdańsk Dębinki, Poland
- Collaborazione con il Prof. Skorski, Temple University School, Philadelphia - USA
- Collaborazione con i Prof. Zetterberg H & Blennow K, Clinical Neurochemistry Laboratory, Institute of Neuroscience and Physiology, University of Gothenburg, Sahlgrenska University Hospital, Sweden

**Dal 1997 al 2003** Ricercatore Universitario **SSD MED04** presso la Facoltà di Medicina e Chirurgia, Università degli studi di Catania

**Dal 2003 al 2018 Professore** Associato **SSD MED04** presso la Facoltà di Medicina e Chirurgia, Università degli studi di Catania

**Dal 2018** Professore Ordinario **SSD MED04** presso la Facoltà di Medicina e Chirurgia, Università degli studi di Catania

## **Pubblicazioni (peer-reviewed journals)**

1. **L Malaguarnera**. Influence of Resveratrol on the Immune Response. *Nutrients*. 2019 Apr 26; 11 (5). Pii: E946. doi: 10.3390/nu11050946
2. Castrogiovanni P, Li Volti G, Sanfilippo C, Tibullo D, Galvano F, Vecchio M, Avola R, Barbagallo I, **Malaguarnera L**, Castorina S, Musumeci G, Imbesi R, Di Rosa M. Fasting and Fast Food Diet Play an Opposite Role in Mice Brain Aging. *Mol Neurobiol*. 2018 Jan 20. doi: 10.1007/s12035-018-0891-5
3. Sanfilippo C, Pinzone MR, Cambria D, Longo A, Palumbo M, Di Marco R, Condorelli F, Nunnari G, **Malaguarnera L**, Di Rosa M. OAS Gene Family Expression Is Associated with HIV-Related Neurocognitive Disorders. *Mol Neurobiol*. 2018; 55:1905-1914
4. Sanfilippo C, Longo A, Lazzara F, Cambria D, Distefano G, Palumbo M, Cantarella A, **Malaguarnera L**, Di Rosa M. CHI3L1 and CHI3L2 overexpression in motor cortex and spinal cord of sALS patients. *Mol Cell Neurosci*. 2017; 85:162-169
5. Sanfilippo C, Cambria D, Longo A, Palumbo M, Avola R, Pinzone M, Nunnari G, Condorelli F, Musumeci G, Imbesi R, Castrogiovanni P, **Malaguarnera L**, Di Rosa M. SERPING1 mRNA overexpression in monocytes from HIV+ patients. *Inflamm Res*. 2017;66:1107-1116
6. Sanfilippo C, Nunnari G, Calcagno A, **Malaguarnera L**, Blennow K, Zetterberg H, Di Rosa M. The chitinases expression is related to Simian Immunodeficiency Virus Encephalitis (SIVE) and in HIV encephalitis (HIVE). *Virus Res*. 2017;227:220-230
7. **Malaguarnera L**, Marsullo A, Zorena K, Musumeci G, Di Rosa M. Vitamin D(3) regulates LAMP3 expression in monocyte derived dendritic cells. *Cell Immunol*. 2017;311:13-21
8. Sanfilippo C, **Malaguarnera L**, Di Rosa M. Chitinase expression in Alzheimer's disease and non-demented brains regions. *J Neurol Sci*. 2016;369:242-9
9. **Malaguarnera L**, Nunnari G, Di Rosa M. Nuclear import sequence identification in hOAS3 protein. *Inflamm Res*. 2016;65:895-904
10. Kadłubowska J, **Malaguarnera L**, Wąż P, Zorena K. Neurodegeneration and Neuroinflammation in Diabetic Retinopathy: Potential Approaches to Delay Neuronal Loss. *Curr Neuropharmacol*. 2016;14:831-839
11. Nunnari G, Fagone P, Lazzara F, Longo A, Cambria D, Di Stefano G, Palumbo M, **Malaguarnera L**, Di Rosa M. Vitamin D3 inhibits TNF $\alpha$ -induced latent HIV reactivation in J-LAT cells. *Mol Cell Biochem*. 2016;418:49-57
12. Di Rosa M, **Malaguarnera L**. Chitinase 3 Like-1: An Emerging Molecule Involved in Diabetes and Diabetic Complications. *Pathobiology*. 2016;83:228-42
13. Blandino G, Inturri R, Lazzara F, Di Rosa M, **Malaguarnera L**. Impact of gut microbiota on diabetes mellitus. *Diabetes Metab*. 2016;42:303-315

14. Di Rosa M, **Malaguarnera L**. Chitotriosidase: A New Inflammatory Marker in Diabetic Complications. *Pathobiology*. 2016;83:211-9
15. Nunnari G, Fagone P, Condorelli F, Nicoletti F, **Malaguarnera L**, Di Rosa M. CD4+ T-cell gene expression of healthy donors, HIV-1 and elite controllers: Immunological chaos. *Cytokine*. 2016;83:127-35.
16. Fagone P, Nunnari G, Lazzara F, Longo A, Cambria D, Distefano G, Palumbo M, Nicoletti F, **Malaguarnera L**, Di Rosa M. Induction of OAS gene family in HIV monocyte infected patients with high and low viral load. *Antiviral Res*. 2016;131:66-73.
17. Di Rosa M, Brundo V, **Malaguarnera L**. New insights on chitinases immunologic activities. *World J Immunol* 2016; 6: 96-104
18. Rosa MD, Distefano G, Gagliano C, Rusciano D, **Malaguarnera L**. Autophagy in Diabetic Retinopathy. *Curr Neuropharmacol*. 2016;14:810-825
19. Szychlinska MA, Trovato FM, Di Rosa M, **Malaguarnera L**, Puzzo L, Leonardi R, Castrogiovanni P, Musumeci G. Co-Expression and Co-Localization of Cartilage Glycoproteins CHI3L1 and Lubricin in Osteoarthritic Cartilage: Morphological, Immunohistochemical and Gene Expression Profiles. *Int J Mol Sci*. 2016 11;17:359
20. Di Rosa M, Distefano G, Zorena K, **Malaguarnera L**. Chitinases and immunity: Ancestral molecules with new functions. *Immunobiology*. 2016;221:399-411
21. Tibullo D, Di Rosa M, Giallongo C, La Cava P, Parrinello NL, Romano A, Conticello C, Brundo MV, Saccone S, **Malaguarnera L**, Di Raimondo F. Bortezomib modulates CHIT1 and YKL40 in monocyte-derived osteoclast and in myeloma cells. *Front Pharmacol*. 2015 14;6:226
22. Di Rosa M, Tibullo D, Saccone S, Distefano G, Basile MS, Di Raimondo F, **Malaguarnera L**. CHI3L1 nuclear localization in monocyte derived dendritic cells. *Immunobiology*. 2016;221:347-56
23. Di Rosa M, Tibullo D, Cambria D, Distefano G, Saccone S, Di Raimondo F, **Malaguarnera L**. Chitotriosidase Expression during Monocyte-Derived Dendritic Cells Differentiation and Maturation. *Inflammation*. 2015;38:2082-91
24. Di Rosa M, Lazzara F, Di Stefano G, Cambria D, Longo AM, **Malaguarnera L**. Modulation of chitinases and chitinase like proteins during macrophage differentiation and polarization. *Biochemistry: an Indian Journal*. 2015; 9: 199-211
25. Peruzzu A, Solinas G, Asara Y, Forte G, Bocca B, Tolu F, **Malaguarnera L**, Montella A, Madeddu R. Association of trace elements with lipid profiles and glycaemic control in patients with type 1 diabetes mellitus in northern Sardinia, Italy: An observational study. *Chemosphere*. 2015;132:101-7
26. Di Rosa M, Sanfilippo C, Libra M, Musumeci G, **Malaguarnera L**. Different pediatric brain tumors are associated with different gene expression profiling. *Acta Histochem*. 2015;117:477-85

27. Malaguarnera M, Uccello M, Bellanca S, La Rosa B, Vacante M, Cristaldi E, Biondi A, Basile F, **Malaguarnera L**. Elevated chromogranin A serum levels in ovarian carcinoma patients. *Indian J Cancer*. 2014;51:315-318
28. Di Rosa M, Tibullo D, Vecchio M, Nunnari G, Saccone S, Di Raimondo F, **Malaguarnera L**. Determination of chitinases family during osteoclastogenesis. *Bone*. 2014;61:55-63
29. Di Rosa M, Szychlinska MA, Tibullo D, **Malaguarnera L**, Musumeci G. Expression of CHI3L1 and CHIT1 in osteoarthritic rat cartilage model. A morphological study. *Eur J Histochem* 2014;58:2423
30. Mangano K, Fagone P, Bendtzen K, Meroni PL, Quattrocchi C, Mammana S, Di Rosa M, **Malaguarnera L**, Coco M, Magro G, Di Marco R, Nicoletti F. Hypomethylating Agent 5-Aza-2'-deoxycytidine (DAC) Ameliorates Multiple Sclerosis in Mouse Models. *J Cell Physiol* 2014;229:1918-25
31. Di Rosa M, Malaguarnera M, Zanchi A, Passaniti A, **Malaguarnera L**. Vitamin D3 insufficiency and colorectal cancer. *Crit Rev Oncol Hematol*. 2013;88:594-612
32. Malaguarnera M, Vacante M, Russo C, Malaguarnera G, Antic T, **Malaguarnera L**, Bella R, Pennisi G, Galvano F, Frigiola A. Lipoprotein(a) in Cardiovascular Diseases. *Biomed Res Int* 2013: 650989
33. Di Rosa M, Tibullo D, Malaguarnera M, Tuttobene M, **Malaguarnera L**. Comparison of YKL-39 and CHIT-1 expression during macrophages differentiation and polarization. *Modern Research in Inflammation* 2013; 2: 82-89
34. Di Rosa M, **Malaguarnera L**, Nicolosi A, Sanfilippo C, Mazzarino C, Pavone P, Berretta M, Cosentino S, Cacopardo B, Pinzone MR, Nunnari G. Vitamin D3: an ever green molecule. *Front Biosci (Schol Ed)*. 2013;5:247-60
35. Di Rosa M, Malaguarnera G, De Gregorio C, D'Amico F, Mazzarino MC, **Malaguarnera L**. Modulation of Chitotriosidase During Macrophage Differentiation. *Cell Biochem Biophys*. 2013; 66:239-47
36. Di Rosa M, Malaguarnera G, De Gregorio C, D'Amico F, Mazzarino MC, **Malaguarnera L**. Modulation of Chitotriosidase During Macrophage Differentiation. *Cell Biochem Biophys*. 2013; 66:239-47
37. Di Rosa M, Malaguarnera G, De Gregorio C, Drago F, **Malaguarnera L**. Evaluation of CHI3L-1 and CHIT-1 Expression in Differentiated and Polarized Macrophages. *Inflammation*. 2013;36:482-92
38. Di Rosa M, De Gregorio C, Malaguarnera G, Tuttobene M, Biazio F, **Malaguarnera L**. Evaluation of AMCase and CHIT-1 expression in monocyte macrophages lineage. *Mol Cell Biochem*. 2013;374:73-80
39. Di Rosa M, Mangano K, De Gregorio C, Nicoletti F, **Malaguarnera L**. Association of chitotriosidase genotype with the development of non-alcoholic fatty liver disease. *Hepatol Res*. 2013;43:267-75
40. Malaguarnera M, Cristaldi E, Romano G, **Malaguarnera L**. Autoimmunity in the elderly: Implications for cancer. *J Cancer Res Ther*. 2012;8:520-7

41. Pinzone MR, Fiorica F, Di Rosa M, Malaguarnera G, **Malaguarnera L**, Cacopardo B, Zanghì G, Nunnari G. Non-AIDS-defining cancers among HIV-infected people. *Eur Rev Med Pharmacol Sci*. 2012 ;16:1377-88
42. Di Rosa M, Malaguarnera G, De Gregorio C, Palumbo M, Nunnari G, **Malaguarnera L**. Immuno-modulatory effects of vitamin D3 in human monocyte and macrophages. *Cell Immunol*. 2012;280:36-43
43. Fagone P, Di Rosa M, Palumbo M, De Gregorio C, Nicoletti F, **Malaguarnera L**. Modulation of heat shock proteins during macrophage differentiation. *Inflamm Res*. 2012;61:1131-9
44. Di Rosa M, Malaguarnera M, Nicoletti F, **Malaguarnera L**. Vitamin D3: a helpful immuno-modulator. *Immunology*. 2011;134:123-39
45. Di Rosa M, **Malaguarnera L**. Genetic variants in candidate genes influencing NAFLD progression. *J Mol Med* 2012;90:105-18
46. Galvano F, Malaguarnera M, Vacante M, Motta M, Russo C, Malaguarnera G, D'Orazio N, **Malaguarnera L**. The physiopathology of lipoprotein (a). *Front Biosci (Schol Ed)*. 2010;2:866-75
47. Mangano K, Nicoletti A, Patti F, Donia M, **Malaguarnera L**, Signorelli S, Magro G, Muzio V, Greco B, Zaratin P, Meroni P, Zappia M, Nicoletti F. Variable effects of cyclophosphamide in rodent models of experimental allergic encephalomyelitis. *Clin Exp Immunol*. 2010;159:159-68 IF: 3.148
48. **Malaguarnera L**, Ohazuruike LN, Tsianaka C, Antic T, Di Rosa M, Malaguarnera M. Human chitotriosidase polymorphism is associated with human longevity in Mediterranean nonagenarians and centenarians. *J Hum Genet*. 2010;55:8-1
49. **Malaguarnera L**, Cristaldi E, Malaguarnera M. The role of immunity in elderly cancer. *Crit Rev Oncol Hematol*. 2010;74:40-60
50. Di Rosa M, Zambito AM, Marsullo AR, Li Volti G, **Malaguarnera L**. Prolactin induces chitotriosidase expression in human macrophages through PTK, PI3-K, and MAPK pathways. *J Cell Biochem*. 2009; 107:881-9
51. Malaguarnera M, Risino C, Cammalleri L, **Malaguarnera L**, Astuto M, Vecchio I, Rampello L. Branched chain amino acids supplemented with L-acetylcarnitine versus BCAA treatment in hepatic coma: a randomized and controlled double blind study. *Eur J Gastroenterol Hepatol*. 2009;21:762-70
52. Malaguarnera M, Di Rosa M, Nicoletti F, **Malaguarnera L**. Molecular mechanisms involved in NAFLD progression. *J Mol Med*. 2009;87:679-95
53. Mangano K, Sardesai N, D'Alcamo M, Libra M, **Malaguarnera L**, Donia M, Dendtzen K, Meroni P, Nicoletti F: In vitro inhibition of enterobacteria-reactive CD4+CD25- T cells and suppression of immunoinflammatory colitis in mice by the novel immunomodulatory agent VGX-1027. *Eur J Pharmacol*. 2008;586:313-21

54. **Malaguarnera L**, Cristaldi E, Lipari E, Malaguarnera M, Acquired immunity: immunosenescence and physical activity. *Eur Rev Aging Phys Act* 2008; 5: 61-68
55. **Malaguarnera L**, Cristaldi E, Vinci M, Malaguarnera M, The role of exercise on the innate immunity of the elderly. *Eur Rev Aging Phys Act* 2007; 5: 43-49-0028-8
56. Motta M, Imbesi R, Di Rosa M, Stivala F, **Malaguarnera L**. Altered plasma cytokine levels in Alzheimer's disease: correlation with the disease progression. *Immunol Lett.* 2007;114:46-51
57. **Malaguarnera L**. Chitotriosidase: the yin and yang. *Cell Mol Life Sci.* 2006;63:3018-29
58. **Malaguarnera L**, Motta M, Di Rosa M, Anzaldi M, Malaguarnera M. Interleukin-18 and transforming growth factor-beta 1 plasma levels in Alzheimer's disease and vascular dementia. *Neuropathology.* 2006; 26: 307-12
59. **Malaguarnera L**, Rosa MD, Zambito AM, dell'Ombra N, Marco RD, Malaguarnera M. Potential role of chitotriosidase gene in nonalcoholic fatty liver disease evolution. *Am J Gastroenterol.* 2006;101:2060-9
60. Di Rosa M, Dell'Ombra N, Zambito AM, Malaguarnera M, Nicoletti F, **Malaguarnera L**. Chitotriosidase and inflammatory mediator levels in Alzheimer's disease and cerebrovascular dementia. *Eur J Neurosci.* 2006;23:2648-56
61. **Malaguarnera L**, Di Rosa M, Zambito AM, dell'Ombra N, Nicoletti F, Malaguarnera M. Chitotriosidase gene expression in Kupffer cells from patients with non-alcoholic fatty liver disease. *Gut.* 2006;55:1313-20
62. Vicari L, Eramo A, Manzella L, **Malaguarnera L**, Iannolo G, Gulisano M, De Maria R, Messina A, Vigneri P. The PU.1 transcription factor induces cyclin D2 expression in U937 cells. *Leukemia.* 2006;20:2208-10
63. Madeddu R, Aranega A, Arena N, **Malaguarnera L**, Marchal JA, Prados JC, Boulaiz H, Pirino A. Indirect immunofluorescence study on the cytoskeleton of normal (FG) and neoplastic (SGS/3A) cadmium treated fibroblasts. *Ital J Anat Embryol.* 2005;110:225-36
64. **Malaguarnera L**, Madeddu R, Palio E, Arena N, Malaguarnera M. Heme oxygenase-1 levels and oxidative stress-related parameters in non-alcoholic fatty liver disease patients. *J Hepatol.* 2005;42:585-91
65. Musumeci M, **Malaguarnera L**, Simpoire J, Barone R, Whalen M, Musumeci S. Chitotriosidase activity in colostrum from African and Caucasian women. *Clin Chem Lab Med.* 2005;43:198-201
66. Di Rosa M, Musumeci M, Scuto A, Musumeci S, **Malaguarnera L**. Effect of interferon-gamma, interleukin-10, lipopolysaccharide and tumor necrosis factor-alpha on chitotriosidase synthesis in human macrophages *Clin Chem Lab Med* 2005;43:499–502

67. **Malaguarnera L**, Imbesi R, Di Rosa M, Scuto A, Castrogiovanni P, Messina A, Sanfilippo S. Action of prolactin, IFN-gamma, TNF-alpha and LPS on heme oxygenase-1 expression and VEGF release in human monocytes/macrophages. *Int Immunopharmacol.* 2005;5:1458-69
68. **Malaguarnera L**, Pilastro MR, Vicari L, Dimarco R, Manzella L, Palumbo G, Messina A. Pyrrolidinedithiocarbamate induces apoptosis in human acute myelogenous leukemic cells affecting NF-kappaB activity. *Cancer Invest.* 2005;23:404-12
69. **Malaguarnera L**, Musumeci M, Di Rosa M, Scuto A, Musumeci S. Interferon-gamma, tumor necrosis factor-alpha, and lipopolysaccharide promote chitotriosidase gene expression in human macrophages. *J Clin Lab Anal.* 2005;19:128-32
70. Brizzi P, Tonolo G, Bertrand G, Carusillo F, Severino C, Maioli M, **Malaguarnera L**, Musumeci S. Autoantibodies against oxidized low-density lipoprotein (ox-LDL) and LDL oxidation status. *Clin Chem Lab Med.* 2004;42:164-70
71. **Malaguarnera L**. Implications of apoptosis regulators in tumorigenesis. *Cancer Metastasis Rev.* 2004;23:367-87
72. **Malaguarnera L**, Musumeci M, Licata F, Di Rosa M, Messina A, Musumeci S. Prolactin induces chitotriosidase gene expression in human monocyte-derived macrophages. *Immunol Lett.* 2004;94:57-63
73. **Malaguarnera L**, Imbesi RM, Scuto A, D'Amico F, Licata F, Messina A, Sanfilippo S. Prolactin increases HO-1 expression and induces VEGF production in human macrophages. *J Cell Biochem.* 2004;93:197-206
74. **Malaguarnera L**, Simpire J, Prodi DA, Angius A, Sassu A, Persico I, Barone R, Musumeci S. A 24-bp duplication in exon 10 of human chitotriosidase gene from the sub-Saharan to the Mediterranean area: role of parasitic diseases and environmental conditions. *Genes Immun.* 2003;4:570-4
75. **Malaguarnera L**, Pilastro MR, Dimarco R., Scifo C, M. Renis, M.C. Mazzarino, A. Messina. Cell death in human acute myelogenous leukemia cells induced by pyrrolodine dithiocarbamate. *Apoptosis* 2003; 8: 539-545
76. Barone R, Simpire J, **Malaguarnera L**, Pignatelli S, Musumeci S. Plasma chitotriosidase activity in acute Plasmodium falciparum malaria. *Clin Chim Acta.* 2003; 331:79-85
77. Musumeci M, **Malaguarnera L**, Simpire J, Messina A, Musumeci S. Modulation of immune response in Plasmodium falciparum malaria: role of IL-12, IL-18 and TGF-beta. *Cytokine.* 2003 21:172-8
78. **Malaguarnera L**, Quan S, Pilastro MR, Abraham NG, Kappas A. Diminished heme oxygenase potentiates cell death: pyrrolidinedithiocarbamate mediates oxidative stress. *Exp Biol Med.* 2003;228:459-65



79. Motta M, Ferlito L, **Malaguarnera L**, Vinci E, Bosco S, Maugeri D, Malaguarnera M. Alterations of the lymphocytic set-up in elderly patients with cancer. *Arch Gerontol Geriatr.* 2003;36:7-14
80. Barone R, Simpore J, **Malaguarnera L**, Pignatelli S, Musumeci S. Plasma chitotriosidase activity in acute Plasmodium falciparum malaria. *J Trop Pediatr.* 2003 49:63-4
81. Barone R, **Malaguarnera L**, Angius A, Musumeci S. Plasma chitotriosidase activity in patients with beta-thalassemia. *Am J Hematol.* 2003 72:285-6
82. **Malaguarnera L**, S. Musumeci. The immune response to Plasmodium falciparum malaria. *Lancet Infect Dis.* 2002; 8:472-478
83. **Malaguarnera L**, Imbesi RM, Pignatelli S, Simpore J, Malaguarnera M, Musumeci S. Increased levels of interleukin-12 in Plasmodium falciparum malaria: correlation with the severity of disease. *Parasite Immunol* 2002; 7:387-89
84. Brizzi P, Isaja T, A. D'Agata, **Malaguarnera L**, Malaguarnera M, Musumeci S. Oxidized LDL antibodies (OLAB) in patients with beta-thalassemia major. *J Atheroscler Thromb.* 2002; 9:139-44
85. **Malaguarnera L**, Pilastro MR, Quan S, Ghattas MH, Yang L, Mezentsev AV, Kushida T, Abraham NG, Kappas A. Significance of heme oxygenase in prolactin-mediated cell proliferation and angiogenesis in human endothelial cells. *Int J Mol Med* 2002; 4: 433-40
86. **Malaguarnera L**, Pignatelli S, Simporè J, Malaguarnera M, Musumeci S. Plasmatic levels of IL-18, IL-12 and TGF- beta in Plasmodium falciparum malaria *Eur. Cytokine Netw* 2002, 13: 425-430 54
87. **Malaguarnera L**, Pignatelli S, Musumeci M, Simpore J, Musumeci S. Plasma levels of interleukin-18 and interleukin-12 in Plasmodium falciparum malaria. *Parasite Immunol.* 2002; 24:489-92
88. **Malaguarnera L**, Ferlito L, Imbesi RM, Gulizia GS, Di Mauro S, Maugeri D, Malaguarnera M, Messina A. Immunosenescence: a review. *Arch. Gerontol Geriatr* 2001; 32:1-14
89. Vinci M, **Malaguarnera L**, Pistone G. RS3PE and ovarian cancer: Case report and review of the literature. *Ann Rheum Dis* 2001; 60: 429-431
90. **Malaguarnera L**, Ferlito L, Di Mauro S, Imbesi RM, Scalia G, Malaguarnera M. Immunosenescence and cancer. *Arch. Gerontol Geriatr.* 2001; 32: 77-93
91. **Malaguarnera L**, Pilastro MR, Vicari L, Di Marco R, Malaguarnera M, Messina A. PTX3 gene expression in Castleman's disease. *Eur J Haemat* 2000; 64:132-3
92. **Malaguarnera L**, Pilastro MR, Vicari L, Dimarco R, Malaguarnera M, Messina A. Ornithine decarboxylase gene expression in Castleman's disease. *J Mol Med* 1999; 77:798-803

93. Manzella L, Girlando G, Giuffrida MA, Spampinato G, Cocchiaro E, Guarniera E, Pilastro MR, **Malaguarnera L**, A Messina. Interferon regulatory factor 1(IRF-1) interacts with Ornithine Decarboxylase Gene During IFN- $\gamma$  macrophage activation. 1997 Ital J. Bioc 46/S1:18-22
94. Szczylik C, Skorski T, **Malaguarnera L**, Hetman J, Chen ST, Calabretta B. Inhibition of in vitro proliferation of chronic myelogenous leukemia progenitor cells by c-myb antisense oligodeoxynucleotides. Folia Histochemica et Cytobiologica 1996; 34:129-34
95. Manzella L, Giuffrida MA, Pilastro MR, Girlando G, **Malaguarnera L**, Messina A. Possible role of the transcription factor interferon regulatory factor 1 (IRF-1) in the regulation of ornithine decarboxylase (ODC) gene expression during IFN gamma macrophage activation. FEBS LETTERS 1994; 348: 177-80
96. Skorski T, Nieborowska-Skorska M, Barletta C, **Malaguarnera L**, Szczylik C, Chen S, Lange B, Gewirtz AM, Calabretta B. Highly efficient elimination of Philadelphia 1 leukemic cells by exposure to bcr/abl antisense oligodeoxynucleotide combined with mafosfamide. J. Clin. Inv. 1993; 92: 194-202
97. Szczylik C, Skorski T, Ku DH, Nicolaides N C, Wen SC, Rudnicka L, Bonati A, **Malaguarnera L**, Calabretta B. Regulation of proliferation and cytokine expression of bone marrow fibroblasts: role of c-myb. J Exp Med 1993; 178: 997-1005
98. Nieborowska-Skorska M, Skorski T, Ratajczak MZ, Szczylik C, **Malaguarnera L**, Calabretta B. Successful mafosfamide purging of bone marrow from chronic myelogenous leukemia (CML) cells. Folia Histochemica et Cytobiologica 1993; 4:161-167
99. Messina L, Spampinato G, Arcidiacono A, **Malaguarnera L**, Pagano M., Kaminska B, Kaczmarek L, Messina A. Polyamine Involvement in Functional activation of human macrophages. J Leuk Biol 1992; 52: 585-587
100. Skorski T, Szczylik C, Ratajczak MZ, **Malaguarnera L**, Gewirtz AM, Calabretta B. Growth Factor-dependent Inhibition of Normal Hematopoiesis by N-ras Antisense Oligodeoxynucleotides. J Exp Med 1992; 175: 743-750
101. Kaczmarek L, Kaminska B, Messina L, Spampinato G, Arcidiacono A, **Malaguarnera L**, Messina A. Inhibitor of Polyamine Biosynthesis Block Tumor Necrosis Factor induced Activation of Macrophages. Cancer Research 1992; 52: 1891-1894
102. Kaminska B, Kaczmarek L, **Malaguarnera L**, Arcidiacono A, Messina L, Spampinato G, Messina A. Transcription Factor activation and Functional Stimulation of Human Monocytes. Cell Biology Intern. Reports 1992; 16: 37-45
103. Spampinato G, Messina L, **Malaguarnera L**, Arcidiacono A, Giuffrida MA, Guarniera E, Geremia E, Rastrelli A, Messina A. A0 1535 Inhibits O<sub>2</sub> production by human macrophages. Immunopharmacology 1992; 24: 25-30
104. Szczylik C, Skorski T, Nicolaides NC, Manzella L, **Malaguarnera L**, Venturelli D, Gewirtz A M, Calabretta B. Selective Inhibition of Leukemia Cell Proliferation by BCR-ABL Antisense Oligodeoxynucleotides. Science 1991; 253: 562-565

105. Skorski T, Szczylik C, **Malaguarnera L**, Calabretta B. Gene-targeted Specific Inhibition of Chronic Myeloid Leukemia Cell Growth by BCR-ABL Antisense Oligodeoxynucleotides. *Folia Histochemica et Cytobiologica* 1991; 29: 85-90
106. Messina L, Arcidiacono A, Spampinato G, **Malaguarnera L**, Berton G, Kaczmarek L, Messina A. Accumulation of ornithine decarboxylase mRNA accompanies activation of human and mouse monocytes/macrophages. *FEBS Lett.* 1990; 268:32-4
107. Condorelli DF, Kaczmarek L, Nicoletti F, Arcidiacono A, Dell'Albani P, Ingrao F, Magrì G, **Malaguarnera L**, Avola R, Messina A, et al. Induction of protooncogene fos by extracellular signals in primary glial cell cultures. *J Neurosci Res.* 1989;23:234-9

### **Contributi in volumi**

1. Goodman AI, Li Volti G, Abraham NG, **Malaguarnera L**. Role of Heme Oxygenase in Angiogenesis and Renal Carcinoma. *Heme Oxygenase in Biology and Medicine*. Kluwer Academic/Plenum Publishers. 2002; 459-467
2. Di Rosa M, **Malaguarnera L**. Chitinases as Biomarkers in Bone Studies Springer Science+Business Media Dordrecht 2015 V.R. Preedy (ed.), *Biomarkers in Bone Disease Biomarkers in Disease: Methods Discoveries and Applications*, DOI 10.1007/978-94-007-7745-3 9

### **Incarichi in società scientifiche**

- Membro del Centro Di Ricerca Multidisciplinare per la Diagnosi e Terapia nelle Malattie Rare (DR. 1048 del 31 marzo 2017)
- Membro del Centro di Ricerca in Imaging Molecolare, Preclinico e Traslazionale (Molecular, Preclinical and Translational Imaging Research Centre) – IMPRonTE (D.R. n. 1820 del 12 giugno 2019,

### **Incarichi Accademici**

- 1) Giugno 2006-Giugno 2009 Presidente scuola di Specializzazione in Reumatologia
- 2) Luglio 2009 – Novembre 2012 Coordinatore della scuola di Specializzazione di Reumatologia
- 3) Dicembre 2012 a oggi (scadenza 2019) Presidente scuola di Specializzazione in Patologia Clinica
- 4) AA 2014/2015 Coordinatore del Master di II Livello in “*Approfondimenti nell’applicazione diagnostica delle metodologie cellulari e molecolari in patologia umana*”
- 5) AA 2015/2016 Comitato Scientifico: Corso di perfezionamento in: *Biologia Forense e Scienza Criminalistiche*
- 6) Componente del Coordinamento della Facoltà di Medicina (2012-2015)
- 7) Responsabile della Sezione di Patologia Generale, Patologia Clinica e Oncologia (dal 2012 a oggi)
- 8) Componente della giunta del Dipartimento di Scienze Biomediche (dal 2012 al 2014)
- 9) Componente della giunta del Dipartimento di Scienze Biomediche e Biotecnologiche (dal 2014 a oggi)
- 10) Componente del Consiglio di Direzione del Dipartimento di Scienze Biomediche e Biotecnologiche (dal 2014 a oggi)

## **ATTIVITA' EDITORIALE:**

- 2015 a oggi Editorial Board PLOSone (<http://journals.plos.org/plosone/static/editorial-board>)
- 2015 a oggi Editorial Board in Diabetes & Metabolism (<http://scireslit.com/Diabetes/editorsJ.php>)
- 2015 a oggi Editorial Board Austin Immunology (<http://austinpublishinggroup.com/austin-immunology/editorialBoard.php>)
- 2005 Consulting Editor Journal of Leukocyte Biology
- Gennaio 2007- Dicembre 2013 Board Member Editor World Journal of Gastroenterology
- Gennaio 2009 – Dicembre 2017 Board Member Editor World Journal of Hepatology Research (<https://www.wjgnet.com/19485182/editorialboard.htm>)
- Gennaio 2012 a oggi Associate Editor in Chief Journal of Gastroenterology and Hepatology Research (<http://www.heraldopenaccess.us/journals/Gastroenterology-&-Hepatology-Research/editorial-board.php>)
- 2009 a oggi Editorial Board Biochemistry & Molecular Biology Letters (<http://www.tsijournals.com/journals/biochemistry-molecular-biology-letters-editors.html>)
- 2010 a oggi Journal of Advanced Research in Tropical Diseases and Vaccines (<http://www.synchropublisher.com/24-journals-contents/journal-of-advanced-research-in-tropical-diseases-and-vaccines-jartdv/45-editorial-board-journal-of-advanced-research>)

## **ATTIVITA' DI REFERAGGIO PER LE SEGUENTI RIVISTE INTERNAZIONALI:**

Hepatology; J. Leukocyte Biology; Cellular Immunology; J. Mol. Med., Current Neuropharmacology; Molecular Immunology; J. Biological Chemistry; FEBS Letters; International Immunopharmacology; Journal of Cellular Biochemistry; Clinical Biochemistry; Antioxidants & Redox Signaling; Folia Biologica; ENDO; Human Genetics; Nutrition; Biomarkers in Medicine; World Journal of Gastroenterology; World Journal of Gastrointestinal Pathophysiology; Letters in Drug Design and Discovery; Cell Biochemistry and Biophysics; Journal Molecular Medicine; Endocrine; PlosOne; Immunology Letters

## **VALUTAZIONI SCIENTIFICHE E REVISIONI PER LE SEGUENTI ISTITUZIONI**

- 1) PRIN 2009 prot. 2009WBFZYM: “Meccanismi molecolari implicati nella cachessia neoplastica: effetti dell’attività fisica”
- 2) Componente del comitato d’area di scienze Mediche (06) per valutazioni dei Progetti d’Ateneo biennio 2005-2007
- 3) Componente del comitato d’area di scienze Mediche (06) per valutazioni dei Progetti d’Ateneo biennio 2007-2009

### **Valutazioni Scientifiche Internazionali:**

1. **ARC Research Grants:** AR/41 “Understanding the biology of human Chi3L1, a novel autoantigen in rheumatoid arthritis: Induction of expression by prolactin and identification of the physiological ligand and/or receptor”
2. **National Center of Science and Technology Evaluation Ministry of Education and Science Astana, Republic of Kazakhstan**
8. **WHRI-ACADEMY fellowship programme 2<sup>nd</sup> Call for Proposal:** WHRIA 543 “Effect of polyphenols on age-associated reactive oxygen species production, brain tissue integrity and learning and memory”
9. **British Society for Antimicrobial Chemotherapy bsac-2017-0185:** "SYNBact – Host immune enzymes as prognostic markers of bacterial infection and clearance"

### **PRINCIPALI COMMISSIONI CONCORSI PUBBLICI:**

- E' stata componente della commissione giudicatrice per la valutazione comparativa bandita dall'Università di Bologna per la copertura di un posto di Ricercatore (G.U. IV serie speciale n. 65 del 16/08/2002)
- E' stata componente della commissione giudicatrice per la valutazione comparativa bandita dall'Università di Udine la copertura di un posto di Ricercatore (G.U. IV serie speciale n. 30 del 15/04/2003)