

Lia Ginaldi

Curriculum vitae

Current Academic Position:

2001-2017 - Associate Professor of Internal Medicine, University of L'Aquila

2001-2017 - Teaching in Internal Medicine, Clinical Immunology and Allergology in various degree courses, PhD and specialties of the Faculty of Medicine, University of L'Aquila

2007-2017 - Director of the Clinical Immunology and Allergology Unit, Teramo Hospital

2007-2017 - Director of the Postgraduate Medical School for Specialists in Clinical Immunology and Allergology, University of L'Aquila.

2008-2017 - Head of the Regional Center of Excellence on Osteoporosis, Hospital of Teramo and University of L'Aquila

2010-2017 - Clinical and Scientific Coordinator of the "Woman's Health" and "Gender Medicine" Projects, Hospital of Teramo and Tercas Foundation

Educational Background and Specializations:

1995-1997 - Courses on Cytometry and Immunophenotyping of Leukaemia, Lymphoma and AIDS organized by the Academic Department of Haematology at the Royal Marsden Hospital and the Royal Microscopical Society of London

1995-1996 - Annual Haematopathology Tutorials of the European School of Haematology, Charing Cross Hospital, London

1991- Postgraduate Course on Basic and Applied Immunology, Karolinska Institute, Stockholm

1989 - Medical Oncology, University of Modena (magna cum laude)

1986 - Clinical Immunology and Allergology, Florence Medical School (magna cum laude)

1983 - Degree in Medicine, University of L'Aquila (magna cum laude)

Professional Background:

2010-2013 - Member of the Ethics Committee, Hospital of Teramo

2004-2007 - Responsible for the Unit of Pathophysiology and Immunology, Medical Department at the Hospital of Teramo

1992-2004 - Clinical activity at Teramo Hospital (Internal Medicine Unit)

1992-2001 - Responsible for the center of cytoimmunophenotyping, Hospital of Teramo

1989-2001 - Researcher of Internal Medicine, University of L'Aquila

1989-2001 - Teacher of Immunology and Allergology, Haematology, Rheumatology and Internal Medicine at the University of L'Aquila

1993-2000 - Teacher of Immunopathology at Veterinary Medical School, University of Teramo

1987-2000 - Physician in charge of the medical care of HIV infected prisoners, Department of Justice

1995-1996 - Research Fellow at the Academic Department of Haematology and Cytogenetics and Institute of Cancer Research, Royal Marsden Hospital, London

1986-1988 - Grants for investigations on Immunologic Aspects of Neoplastic Diseases from Teramo Hospital Administration and L'Aquila University

Memberships

Italian Society of Clinical Immunology and Allergology, Italian Society of Immunology and Immunopathology, National Association Against AIDS, American Association for Cancer Research, American Society of Clinical Oncology, Italian Society of Internal Medicine, Italian Society of Gender Medicine and International Society for Gender Medicine, Italian Society of Osteoporosis and Metabolic Diseases, Italian Foundation for the study of Chronic Inflammatory Diseases

Referee for peer-reviewed International Journals: Inflammation Research, Trends in Immunology,

Clinical and Experimental Immunology, Mechanisms of Ageing and Development, Cytokine, Expert Review of Clinical Immunology, Immunity and Ageing, Experimental Gerontology, etc.

Scientific Reviewer for International Research Projects

2001: Austrian K-plus Project for a Center of Excellence on Age-related Diseases and Technologies;

2006: Research into Ageing, London

2010: Wellcome Trust Project-University Award, Populations and Public Health, London

2014: Bando SIR del Ministero Italiano dell'Istruzione, dell'Università e della Ricerca

2014: "Research Projects" Call for Proposals of the Croatian Science Foundation. Croatian Science Foundation (HRZZ)

2015: Research Lines of Excellence at National Research Institutes of Health–Spain

Editorial boards: World Journal of AIDS, Advances in Aging Research, ISRN Immunology, International Journal of Orthopedics and Rehabilitation, Clinical Journal of Allergy and Immunology, International Journal of Allergy Medications (Editor-in-chief)

Scientific Research Activity

- Immunophenotypical characterization of immune cells in physiological, neoplastic and reactive conditions, in particular chronic lymphoproliferative diseases, immunodeficiency and aging, by means of cytofluorimetric techniques.
- Study of the immune system in HIV patients with particular reference to different activation patterns of lymphocytes and splenic function.
- Study of the immune system remodeling and chronic inflammatory processes of immunosenescence and relative correlated pathologies.
- Immunopathogenetic mechanisms of osteoporosis and their clinical-therapeutical implications.
- Gender medicine and the gender immune system

Papers and Lectures presented at many National and International Scientific Conferences.

Main publications:

Journal articles

Ginaldi L, Magnanimiti G, Catena G, De Angelis S. Sorveglianza epidemiologica e clinica dell'infezione da HIV in ambiente carcerario: esperienza personale. *Eur Rev Med Pharmacol Sci* 10, 27, 1988.

De Pasquale A, Ginaldi L, Limoncelli P, Quaglino D. Dipeptidylaminopeptidase IV cytochemistry in circulating lymphocytes from HIV-I-seropositive subjects. *Acta Haematol* 81, 19, 1989.

Ginaldi L, Venturoni L, Cretara G, Quaglino D. Recurrence of Hodgkin's disease after 28 years' disease-free survival. *Tumori* 75, 637, 1989.

Corazza GR, Ginaldi L, Falasca A, Strocchi A, Rossio CA, Quaglino D, Gasbarrini G. Diamine oxidase plasma activities after treatment with heparin and jejunal morphometry in untreated coeliac disease. *J Clin Pathol* 42, 1136, 1989.

Ginaldi L, Venturoni L, Limoncelli P, Quaglino D. Revisione critica del valore predittivo di diverse classificazioni del mieloma multiplo. *Haematologica* 5 (suppl.1), 8, 1989.

Quaglino D, De Pasquale A, Ginaldi L. Valutazione del labelling index negli stadi precoci del mieloma multiplo. *Haematologica* 5 (suppl.1), 150, 1989.

Corazza GR, Ginaldi L, Zoli G, Frisoni M, Lalli G, Gasbarrini G, Quaglino D. Howell-Jolly body counting as a measure of splenic function. A reassessment. *Clin Lab Haematol* 12, 269, 1990.

Corazza GR, Zoli G, Ginaldi L, Cancellieri C, Profeta V, Gasbarrini G, Quaglino D. Tuftsin deficiency in AIDS. *Lancet* 337, 12, 1991.

De Pasquale A, Ginaldi L, Di Leonardo G, Napolitano C, Quaglino D. Exercise-induced variations of lymphocytosis in the lymphoproliferative disease of large granular lymphocytes. *Br J Haematol* 82, 178, 1992.

De Pasquale A, Ginaldi L, Di Leonardo G, Vallarola L, Gianfelice AP, Quaglino D. Deficit mieloperossidasi acquisito: interessamento selettivo dei monociti in un caso di leucemia mielomonocitica cronica. *Haematologica* 78 (suppl.1), 118, 1993.

Ginaldi L, De Pasquale A, Napolitano C, Vallarola L, De Martinis M, Lalli G, Quaglino D. Variazione dei livelli di linfocitosi indotta da esercizio fisico in due casi di proliferazione di "large granular lymphocytes". *Haematologica* 78 (suppl.1), 157, 1993.

Ginaldi L, De Pasquale A, De Martinis M, Calvisi G, Coletti G, Ventura T, Quaglino D. Epididymal lymphoma. A case report. *Tumori* 79, 147, 1993.

De Pasquale A, Ginaldi L, Di Leonardo G, Francavilla S, Quaglino D. Selective involvement of monocytes by acquired myeloperoxidase deficiency in a case of chronic myelo-monocytic leukaemia. *Ann Hematol* 66, 261, 1993.

Bompadre S, Ferrante L, De Martinis M, Ginaldi L, Quaglino D, Leone L. Determination of cefodizime in human plasma by high-performance liquid chromatography with column-switching. *J Liquid Chromat* 18 (14), 2895, 1995.

Corazza GR, Valentini RA, Andreani ML, D'Anchino M, Leva MT, Ginaldi L, De Feudis L, Quaglino D, Gasbarrini G. Subclinical coeliac disease is frequent cause of iron deficiency anemia. *Scand J Gastroenterol* 30, 153, 1995.

Recchia F, Ginaldi L, Discepoli S, De Martinis M, Coloni F, Quaglino D. Autologous bone marrow transplantation for uterine sarcoma. Case report. *Eur J Cancer* 32 (3), 553, 1996.

Ginaldi L, Farahat N, Matutes E, De Martinis M, Morilla R, Catovsky D. Differential expression of T cell antigens in normal peripheral blood lymphocytes: a quantitative analysis by flow cytometry. *J Clin Pathol* 49, 539-544, 1996.

Ginaldi L, Matutes E, Farahat N, De Martinis M, Morilla R, Catovsky D. Differential expression of CD3 and CD7 in T-cell malignancies: a quantitative study by flow cytometry. *Br J Haematol* 93, 921-927, 1996.

Quaglino D, Ginaldi L, Furia N, De Martinis M. The effect of age on haemopoiesis. *Aging Clin Exp Res* 8, 1-12, 1996.

Quaglino D, Di Leonardo G, Ginaldi L, Lalli G, Limoncelli P. Secondary leukaemias. Clinical and cytobiological aspects. *Rec Prog Med* 87 (10), 491, 1996.

D'Ostilio A, Ginaldi L, Marini L, Di Gennaro A, De Martinis M, Quaglino D. Applicazioni cliniche della citofluorimetria in oncematologia. *Rec Prog Med* 88 (4),157, 1997.

Recchia F, De Filippis S, Ginaldi L, Rea S, Quaglino D, Gulino A, Frati L. Phase I-II study of dose intensified chemotherapy with filgrastim and thymopentin in patients with advanced cancer. *Clin Ter* 148, 201, 1997.

Strocchi A, Corazza GR, Anania C, Benati G, Malservisi S, Cherchi MV, Certo M, Malorgio E, Marano M, Mazzeo V, Ginaldi L, Giorgetti GM, Pimpo T, Sciarretta G, Ventrucci M, Quondamcarlo C, Pelli MA, Perri F. Quality control study of H₂ breath testing for the diagnosis of carbohydrate malabsorption in Italy. The "tenue club" Group. *Ital J Gastroenterol* 29 (2),122, 1997.

Ginaldi L, De Martinis M, D'Ostilio A, Di Gennaro A, Marini L, Profeta V, Quaglino D. Activated naive and memory CD4⁺ and CD8⁺ subsets in different stages of HIV infection. *Pathobiology* 65, 91, 1997.

Corazza GR, Ginaldi L, Furia N, Marani-Toro G, Di Giammartino D, Quaglino D. The impact of HIV infection on lactose absorptive capacity. *J Infect* 35, 31, 1997.

Ginaldi L, De Martinis M, D'Ostilio A, Di Gennaro A, Marini L, Quaglino D. Altered lymphocyte antigen expressions in HIV infection. *Am J Clin Pathol* 108, 585, 1997.

Ginaldi L, De Martinis M, Matutes E, Farahat N, Morilla R, Dyer MJS, Catovsky D. Levels of expression of CD52 in normal and leukemic B and T cells: correlation with in vivo therapeutic responses to Campath-1H. *Leuk Res* 22,185,1998.

Ginaldi L, De Martinis M, Matutes E, Farahat N, Morilla R, Catovsky D. Levels of expression of CD19 and CD20 in chronic B cell leukaemias. *J Clin Pathol* 51,364-369,1998.

Ginaldi L, De Martinis M, D'Ostilio A, Marini L, Quaglino D. Changes in antigen expressions on B lymphocytes during HIV infection. *Pathobiology* 66,17-23,1998.

Corazza GR, Ginaldi L, Quaglione G, Ponzielli F, Vecchio L, Biagi F, Quaglino D. Proliferating cell nuclear antigen expression is increased in small bowel epithelium in the elderly. *Mech Ageing Dev* 104, 1-9, 1998.

Ginaldi L, De Martinis M, D'Ostilio A, Loreto MF, Quaglino D. The immunophenotypic analysis of chronic lymphoid leukaemias. *Cancer J* 11, 284, 1998.

Ginaldi L, De Martinis M, D'Ostilio A, Marini L, Loreto MF, Corsi MP, Quaglino D. The immune system in the elderly. I. Specific humoral immunity. *Immunol Res* 20, 101-108, 1999.

Ginaldi L, De Martinis M, D'Ostilio A, Marini L, Loreto MF, Martorelli V, Quaglino D. The immune system in the elderly. II. Specific cellular immunity. *Immunol Res* 20, 109-115, 1999.

Ginaldi L, De Martinis M, D'Ostilio A, Marini L, Loreto MF, Quaglino D. The immune system in the elderly. III. Innate immunity. *Immunol Res* 20, 117-126, 1999.

Ginaldi L, De Martinis M, D'Ostilio A, Marini L, Loreto MF, Quaglino D. Immunological changes in the elderly. *Ageing Clin Exp Res* 11, 281-286, 1999.

Ginaldi L, De Martinis M, D'Ostilio A, Marini L, Loreto MF, Corsi MP, Quaglino D. Cell proliferation and apoptosis in the immune system in the elderly. *Immunol Res* 2000, 21, 31-38.

Ginaldi L, De Martinis M, Modesti M, Loreto F, Corsi MP, Quaglino D. Immunophenotypical changes of T lymphocytes in the elderly. *Gerontology* 2000, 46, 242-248.

Corsi MP, Ginaldi L, De Martinis M, Di Leonardo G, Loreto MF, Modesti M, Quaglino D. Alterazioni emocoagulative e patologia neoplastica. *Rec Prog Med* 91, 532, 2000.

Di Leonardo G, Ginaldi L, De Martinis M, Stati M, Quaglino D. Linfomi extranodali: studio clinico-epidemiologico di 209 casi. *Rec Prog Med* 91, 500, 2000.

De Martinis M, Modesti M, Loreto MF, Quaglino D, Ginaldi L. Adhesion molecules on peripheral blood lymphocyte subpopulations in the elderly. *Life Sci* 68, 139-151, 2000.

De Martinis M, Modesti M, Profeta VF, Tullio M, Loreto MF, Ginaldi L, Quaglino D. CD50 and CD62L adhesion receptor expression on naive (CD45RA+) and memory (CD45RO+) T lymphocytes in the elderly. *Pathobiology*. 2000;68(6):245-50.

Loreto MF, De Martinis M, Ginaldi L, Modesti M, Corsi MP, Quaglino D. Coagulation and cancer: implications for diagnosis and management. *Pathol Oncol Res* 6, 301, 2000.

Ginaldi L, De Martinis M, D'Ostilio A, Marini L, Loreto F, Modesti M, Quaglino D. Changes in the expression of surface receptors on lymphocyte subsets in the elderly: a quantitative flow cytometric analysis. *Am J Hematol* 67, 63-72, 2001.

Ginaldi L, De Martinis M, Loreto MF, Corsi MP, Modesti M. Immunosenescence and infectious diseases. *Microbes Infect* 3, 851-857, 2001.

Ginaldi L, De Martinis M, Monti D, Franceschi C. The immune system in the elderly. Activation-induced and damage-induced apoptosis. *Immunol Res* 30, 81-94, 2004.

De Martinis M, Modesti M, Ginaldi L. Phenotypic and functional changes of circulating monocytes and polymorphonuclear leucocytes from elderly persons. *Immunol Cell Biol* 82, 415-420, 2004.

Ginaldi L, De Martinis M, Monti D, Franceschi C. Chronic antigenic load and apoptosis in immunosenescence. *Trends Immunol* 26, 79-84, 2005.

De Martinis M, Franceschi C, Monti D, Ginaldi L. Inflamm-aging and lifelong antigenic load as major determinants of aging rate and longevity. *FEBS Lett* 579, 2035-2039, 2005.

Ginaldi L, Di Benedetto MC, De Martinis M. Osteoporosis, inflammation and ageing. *Immun Ageing* 2, 14, 2005. DOI: 10.1186/1742-4933-2-14

De Martinis M, Franceschi C, Monti D, Ginaldi L. Inflammation markers predicting frailty and mortality in the elderly. *Exp Mol Pathol* 80: 219-27, 2006.

Alberti S, Cevenini E, Ostan R, Capri M, Salvioli S, Bucci L, Ginaldi L, De Martinis M, Franceschi C, Monti D. Age-dependent modifications of type 1 and type 2 cytokines within virgin and memory CD4+ T cells in humans. *Mech Ageing Dev* 127: 560-6, 2006.

De Martinis M, Di Benedetto MC, Mengoli LP, Ginaldi L. Senile osteoporosis: is it an immune-mediated disease? *Inflamm Res* 55: 399-404, 2006.

Ostan R, Alberti S, Bucci L, Salvioli S, Pasi S, Capri M, Di Iorio A, Ginaldi L, De Martinis M, Franceschi C, Monti D. Effect of zinc ions on apoptosis in PBMCs from healthy aged subjects. *Biogerontology* 7: 437-447, 2006.

De Martinis M, Franceschi C, Monti D, Ginaldi L. Apoptosis remodeling in immunosenescence: implications for strategies to delay ageing. *Curr Med Chem* 14: 1389-1397, 2007.

De Martinis M, Mengoli LP, Di Benedetto MC, Ginaldi L. Osteoporosis – an immune mediated disease? *Drug Discovery Today: Therapeutic Strategies* 4: 3-9, 2007.

Ginaldi L, Mengoli LP, De Martinis M. Review on immunosenescence. *Rev Clin Gerontol* 17: 161-169, 2007.

Campisi G, Chiappelli M, De Martinis M, Franco V, Ginaldi L, Guiglia R, Licastro F, Lio D. Pathophysiology of age-related diseases. *Immun Ageing* 6: 12, 2009. DOI: 10.1186/1742-4933-6-12

Anticoli S, Arciello M, Mancinetti A, De Martinis M, Ginaldi L, Iuliano L, Balsano C. 7-ketocholesterol and 5,6-secoesterol modulate differently the stress-activated mitogen-activated protein kinases (MAPKs) in liver cells. *J Cell Physiol* 222: 586-95, 2010.

Ferrario A, Merli F, Luminari S, Stelitano C, Mannina D, Russo M, Mazza P, Marcheselli L, Goldaniga MC, Federico M, Baldini. Other collaborators: Lombardo M, Bagnuolo A, Nunzi M, Mastrullo L, Fregoni V, Centurioni R, Giglio G, Ginaldi L, Riezzo A, Fragasso A, Caparrotti G, Partesotti G, Vallisa D, Girmenia GP, Polimeno G, Musolino C (2011). Phase II fludarabine and cyclophosphamide for the treatment of indolent B cell non-follicular lymphomas: final results of the LL02 trial of the Gruppo Italiano per lo Studio dei Linfomi (GISL). *Ann Hematol* 90: 323-330, 2011

Ciccarelli F, De Martinis M, Ginaldi L. An update on autoinflammatory diseases. *Curr Med Chem* 21: 261-9, 2013

De Martinis M, Ginaldi L. Capillaroscopy opens a window to look inside. *Rheumatology* 4: e112, 2014

De Martinis M, Ginaldi L. Rethinking the "Sunshine" Vitamin. *J Osteopor Phys Act* 2:2, 2014

Ciccarelli F, De Martinis M, Ginaldi L. Glucocorticoids In Patients With Rheumatic Diseases: Friends Or Enemies of Bone? *Curr Med Chem* 2015;22(5):596-603

Ginaldi L, De Martinis M, Ciccarelli F, Saitta S, Imbesi S, Mannucci C, Gangemi S. Increased levels of interleukin 31 (IL-31) in osteoporosis. *BMC Immunol* 2015 Oct 8;16:60. doi: 10.1186/s12865-015-0125-9

De Martinis M, Ciccarelli F, Sirufo MM, Ginaldi L. An Overview of Environmental Risk Factors In Systemic Sclerosis. *Expert Rev Clin Immunol* 2016;12(4):465-78

Ciccarelli F, De Martinis M, Ginaldi L. Psoriasis induced by anti-TNF α agents: a comprehensive review of the literature. *Acta Dermatovener Cr* 2016;24(3):169-174

Ginaldi L, De Martinis M. Osteoimmunology and beyond. *Curr Med Chem* 2016;23(33):3754-3774

De Martinis M, Sirufo MM, Ginaldi L. Allergy and aging: an old/new emerging health issue. *Aging Dis* 2017;8(2):162-175

Massimini M, Palmieri C, Malatesta D, De Martinis M, De Maria R; Ciccarelli A, Romanucci M, Ginaldi L, Buracco P, Bongiovanni L, Della Salda L. Effects of 17-AAG on Apoptosis, Autophagy and Mitophagy in Canine Osteosarcoma Cell Lines. *Vet Pathol* 2017;54(3):405-412

Book chapters

Corazza GR, Ginaldi L, Proietti F, Quaglino D. La gastrite eosinofila. In: S. Gullini, P. Pazzi eds. "Le gastriti croniche" Edizioni Doyma, Milano, p.139, 1993.

Quaglino D, Ginaldi L, De Martinis M. Emopoiesi: meccanismi di controllo e metodi di studio. In: Alterazioni Ematologiche in Medicina Interna. Trattato Italiano di Medicina di Laboratorio. A cura di Burlina A. Vol. V Diagnostica Ematologica. Ed Piccin, Padova, parte VIII, Cap. 1, p.1, 1999.

Ginaldi L, Quaglino D, De Martinis M. Alterazioni ematologiche nelle malattie reumatiche e manifestazioni reumatiche nelle malattie ematologiche. In: Alterazioni Ematologiche in

Medicina Interna. Trattato Italiano di Medicina di Laboratorio. A cura di Burlina A. Vol. V Diagnostica Ematologica. Ed Piccin, Padova, parte VIII, Cap. 5, p.1, 1999.

Quaglino D, Ginaldi L, De Martinis M, D'Ostilio A. Alterazioni ematologiche in età geriatrica. In: Alterazioni Ematologiche in Medicina Interna. Trattato Italiano di Medicina di Laboratorio. A cura di Burlina A. Vol. V Diagnostica Ematologica. Ed Piccin, Padova, parte VIII, Cap. 9, p.1, 1999.

Quaglino D, Ginaldi L, De Martinis M. Alterazioni ematologiche nelle malattie neoplastiche e tumori solidi associati a malattie ematologiche. In: Alterazioni Ematologiche in Medicina Interna. Trattato Italiano di Medicina di Laboratorio. A cura di Burlina A. Vol. V Diagnostica Ematologica. Ed Piccin, Padova, parte VIII, Cap. 4, p.1, 1999.

Ginaldi L, Sternberg H. The immune system. In: Physiological Basis of Aging and Geriatrics. 3rd edition. PS Timiras ed. CRC press, USA, Chapter 15, p. 265, 2003.

Ginaldi L, Sternberg H. The immune system. In: Physiological Basis of Aging and Geriatrics. 4rd edition. PS Timiras ed. Taylor & Francis Group – LLC press, USA Chapter 15, 2007.

Ginaldi L, De Martinis M. Phenotypic and functional changes of circulating monocytes in elderly. In: Handbook on immunosenescence: basic understanding and clinical applications. Fulop T, Franceschi C, Hirokawa K, Pawelec G eds. Springer-Verlag press, 2009, pp.511-528.

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Ginaldi L, De Martinis M. Apoptosis in immunosenescence. In: Preedy VR ed. Apoptosis. Series book Modern Insights Into Disease from Molecules to Man. Science Publishers – USA, 2010, pp 509-522.

Ginaldi L, De Martinis M. Leukemias. In: Bologna M ed. "Biotargets of Cancer in Current Clinical Practice". Springer Humana Press, New York, USA, 2012, pp 159-194.

Ginaldi L, De Martinis M, Sirufo M, Mengoli L. Osteoporosis, inflammation and aging. In: Handbook of immunosenescence: basic understanding and clinical applications. Fulop T, Franceschi C, Hirokawa K, Pawelec G eds. Springer-Verlag press, 2° edition 2017 (in press).

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Ginaldi L, De Martinis M. Osteoimmunology in Aging. In: Aging: Exploring a Complex Phenomenon. Taylor and Francis Group LLC/CRC Press, Florida, USA, 2017 (in press).

A handwritten signature in blue ink, appearing to read 'Ginaldi L', with a small flourish at the end.

Teramo, 11 giugno 2017