

ROBERTO PAGANELLI

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WORK EXPERIENCE

1-11-2022 – present

ADJUNCT PROFESSOR, INTERNAL MEDICINE, SAINT CAMILLUS INTERNATIONAL UNIVERSITY OF HEALTH AND MEDICAL SCIENCES, ROME

Teaching for the 3rd Year 1st semester Course of Clinical Semeiotics, School of Medicine, for two courses of Medicine and Surgery.

1-1-2021 – present

ACADEMIC EDITOR, PATHOGENS, SECTION OF VACCINES AND IMMUNOTHERAPY, MDPI (from 1-1-2023 also for BIOMEDICINES and VACCINES, MDPI).

1-11-2004 – 1-11-2021

FULL PROFESSOR, INTERNAL MEDICINE, UNIVERSITA' G. D'ANNUNZIO CHIETI-PESCARA

-Board Member of the Council of the Department of Medicine and Science of Aging

-President of the section of Translational and Specialty Medicines

-Director of the School of Specialization in Rheumatology of Chieti (2007-2014)

-Director of the School of Specialization in Allergy and Clinical Immunology (2017-2021)

-Coordinator of the course of Systematic Pathology 4 (2001-14) of the School of Medicine, and of the courses of Specialty Medicine and Fisiotherapy and Pathology of the musculoskeletal system of the School of Physiotherapy (2005-2021), Abdominal organs and Systemic Diseases of the School of Dieticians (2006-2021), Emergency Medicine of the School of Nursing sciences (2020-21),

-Teaching commitment for the subjects Rheumatology, Clinical Immunology, Emergency Medicine and Clinical Semeiotics, and also lessons for the Schools of Specialization of Internal Medicine, Emergency Medicine, Geriatrics, Dermatology, Infectious Diseases, Physical Medicine and Rehabilitation, Allergy and Clinical Immunology, Occupational Medicine, Radiology and Radiotherapy.

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1-12-1999 – 31-10-2004

ASSOCIATE PROFESSOR OF INTERNAL MEDICINE, UNIVERSITA' G. D'ANNUNZIO, CHIETI- PESCARA

Board Member of the Council of the Department of Medicine and Science of Aging

Teacher of the disciplines Diseases of the Immune System, Rheumatology, in the Course for Medical

Degree, and in the Courses for Physiotherapist, Dieticians, Movement sciences, Cardiocirculatory Technician, Biomedical Laboratory Technician, Preventive Medicine Technician.

1-12-1984 – 30-11-1999

ASSISTANT PROFESSOR (TENURED) – UNIVERSITA' LA SAPIENZA, ROME

Physician in charge of the Outpatients' Clinic (Allergy section) and Day Hospital Clinical Assistant(1989-1994) of the Department of Allergy and Clinical Immunology, Policlinico Umberto I of Rome University "La Sapienza" in the III Medical Clinic – Department of Clinical Medicine (now Precision Medicine).

Teacher at the Postgraduate School of Allergy and Clinical Immunology, and the Diploma Course for Laboratory Technician.

1983 – 30-11-1984

ASSISTANT PROFESSOR, UNIVERSITA' DEGLI STUDI DE L'AQUILA

Starting 1-06-1984, at San Salvatore Hospital, Internal Medicine, University of L'Aquila

1982-83

Consultant for the Medical Direction, Istituto farmacologico C. Serono, Roma

1-2-1978 – March 1982

Scholarship of the Italian Ministry for Foreign Affairs (1978), Nuffield Foundation Scholarship (1979-82) as Research Fellow at the Department of Immunology, Institute of Child Health, University of London. H. Clin. Assistant Great Ormond Street Hospital, London (1979-82).

SCHOOLING

JUNE 1984

SPECIALIZATION IN ALLERGY AND CLINICAL IMMUNOLOGY,

UNIVERSITA' LA SAPIENZA, ROME

70/70 with honors

JULY 1976

MEDICAL DEGREE, UNIVERSITA' LA SAPIENZA, ROME

110/110 with honors

JULY 1970

High School Diploma (Maturità Classica, Liceo Giulio Cesare), Rome 60/60 with honors

SKILLS AND QUALIFICATIONS

- Written and spoken English language
- Cambridge University Lower Certificate of English at age 16 (1967)
- Work experience abroad: from Feb, 1978 to March 1982 at the Dept. of Immunology, I.C.H. University of London (UK)
- Sabbatical at the Miller School of Medicine, University of Miami (FL) in 2017
- Teaching member of the Research Doctorate in Life Sciences and Translational Medicine, at the University "G. d'Annunzio"
- Tutor and thesis supervisor of 3 Ph.D. students (one from U.S.), in collaboration with the Dept. of Rheumatology, University College Hospital, London, and the Dept. of Microbiology and Immunology, University of Miami.
- Thesis Supervisor of >100 students for the Degree in Medicine and Surgery and for Specializations in Rheumatology and Allergy and Clinical Immunology

OTHER ACTIVITIES

- Board Member of the European Society for Immuno Deficiencies (ESID) in the Committee on Clinical Immunology, in charge for establishing the European Primary Immunodeficiency Registry; in the European Academy of Allergy and Clinical Immunology member of the Subcommittee on adverse reactions to foods;
- Member of the Council of the Società Italiana di Allergologia, Asma ed Immunologia Clinica (SIAAIC) from 1989 to 1994 and from 2008 to 2016; member of the Committee on Adverse Drug reactions, and president of the Interest group on Primary and secondary immunodeficiencies
- Member of the Committee on Immune deficiencies of the World Allergy organization WAO (2014-) Consultant in Immunology at IRCCS San Gallicano, I.F.O. - Polo Dermatologico, Rome, from June 2000 to 2002.
- Member of the Steering Committee of the Center of Excellence on Ageing of The Ud'A Foundation in Chieti recognized by the Italian Ministry of University, and Director of the Unit of Biogerontology and Cytokines of the Centro di Eccellenza sull'Invecchiamento (CESI) from 2003 to 2017.
- Member of the Ethical Committee of the College of Internal Medicine COLMED-09)
- Member of the Board of the Section Lazio-Abruzzo of the SIAAIC since 2016-.
- Past member of the Scientific Committees of the Associazione Nazionale per la Lotta all'AIDS (ANLAIDS), Lega italiana Sclerosi sistemica and the Gruppo LES italiano lupus-italy.
- Member of the Strategic Committee on Primary Immunodeficiencies in the A.I.E.O.P. and participant to the Italian Network I.P.I.Net;
- Co-founder and Member of the Research group Stem-Tech (Stem cell studies) of the Universities "G. D'Annunzio" of Chieti and University of Teramo.
- Co-founder of ImmuniTA – Italian Association for Immunodeficiencies, 2024.

SCIENTIFIC SOCIETIES, GRANTS

MEMBER: SOCIETÀ ITALIANA DI IMMUNOLOGIA, IMMUNOLOGIA CLINICA E ALLERGOLOGIA (SIICA),

SOCIETÀ ITALIANA DI ALLERGOLOGIA, ASMA E IMMUNOLOGIA CLINICA (SIAAIC), COLLEGIO DEI DOCENTI DI MEDICINA INTERNA (COLMED09), WORLD ALLERGY ORGANIZATION (WAO).

PAST MEMBERSHIPS: EUROPEAN ACADEMY OF ALLERGY AND CLINICAL IMMUNOLOGY (EAACI), EUROPEAN SOCIETY FOR IMMUNE DEFICIENCIES (ESID), BRITISH SOCIETY OF IMMUNOLOGY(BSI), AMERICAN ACADEMY FOR THE ADVANCEMENT OF SCIENCES (AAAS), FEDERATION OF CLINICAL IMMUNOLOGY SOCIETIES (FOCIS), SOCIETÀ ITALIANA DI MEDICINA INTERNA (SIMI), AMERICAN ASSOCIATION OF IMMUNOLOGY (AAI).

Research grants in Italy (Fondi Progetti di interesse nazionale, MIUR; Progetto FAT.MA: CNR; Fondi Progetti di ricerca sull'Aids, Ministero della Salute) and international funding (EU Projects BioMed 1, and 5th Framework Project; Thematic Network ImAginE),

Medal Hyeronimus Fracastorius from the Association of Italian Hospital Dermatologists, San Remo 1989

Award for the contribution to the development of the Specialty of Allergy and Clinical Immunology from the Italian Society of Allergy, Asthma and Clinical Immunology, Bologna 2023

SCIENTIFIC INTERESTS

- ALLERGIC DISEASES and in particular the study of food allergies, their pathogenic mechanisms and the role of intestinal permeability, oral antigen administration and the mucosal immune response; regulation of IgE production, and the role of cytokines (IL4, IFN alpha and gamma).
- PRIMARY IMMUNODEFICIENCIES and in particular the defects of humoral immunity, common variable immunodeficiency, IgA deficiency, IgG subclass defects, ataxia-telangiectasia; T cell defects and SCID, and the hyper-IgE syndrome; studies of pathogenic mechanisms, molecular defects, diagnosis and therapy with i.v. immunoglobulins.
- **HIV INFECTION** and other viral infections (HBV, HCV, Flu vaccination, EBV, CMV) in particular the immune response and the host-virus relationship, correlates of susceptibility and resistance to infection, and the response to therapy (HAART in HIV, and cohort studies as Long term non progressors).
- IMMUNOSENESCENCE in particular changes in T lymphocyte subsets in ageing, proinflammatory cytokines production both in health and in age associated degenerative and inflammatory disorders, including neurodegeneration.
- IMMUNOPATHOGENIC MECHANISMS in particular studies of antibody synthesis, IgE and IgG subclasses production, and circulating immune complexes.
- More recently, studies of MESENCHYMAL (STROMAL) STEM CELLS from different organs, the regulation of autoantibody formation in autoimmune diseases and the cross-talk of the immune and adipose systems.

EDITORIAL ACTIVITY AND PUBLICATIONS

Author or coauthor of 400 published papers (articles, reviews, book chapters, conference proceedings, etc.) 75% in English.

- EDITOR IN CHIEF OF THE SECTION VACCINES AND THERAPEUTIC DEVELOPMENTS OF THE JOURNAL Pathogens (I.F.3,7)
- Associate Editor Section Translational Pharmacology in FRONTIERS IN PHARMACOLOGY (I.F. 5,6)
- Editor IMMUNITY AND AGEING (I.F.9.7)
- Academic Editor BIOMEDICINE (I.F.4.7),
- Editor AUTOIMMUNITY AND AUTOINFLAMMATORY DISORDERS Section in FRONTIERS IN IMMUNOLOGY (I.F. 7.3)
- Editor in Chief MONOCYTOMICS
- also on the Editorial Board of INNOSC Theranostics and Pharmacological Sciences, Exploration in Immunology, Journal of Inflammatory Diseases.

Reviewer for several journals of top 5 scientific publishers.

Invited speaker at several National and International Meetings, presenter of more than 250 abstracts as oral or poster presentations; invited to present Seminars at several Scientific associations and Universities in three Continents. Served as Chair and Panelist in the same Scientific meetings.

LIST OF PUBLICATIONS

Latest book chapters:

- Federica Pulvirenti, Emma de Maio, Cinzia Milito, Roberto Paganelli, Isabella Quinti, Chapter 48 – Asplenia. In: Editor(s): Kathleen E. Sullivan, E. Richard Stiehm, Stiehm's Immune Deficiencies (Second Edition), Academic Press, 2020, Pages 1021-1033, <https://doi.org/10.1016/B978-0-12-816768-7.00048-X>.
- Paganelli R, Paganelli A, Turi M.C. Fas Pathway of Cell Death and B Cell Dysregulation in SLE. In: Systemic Lupus Erythematosus (H. Almoallim, ed.). InTech; 2012. Available from: <http://dx.doi.org/10.5772/26509>

ARTICLES IN PUBMED

- Luzi G, Pandolfi F, Paganelli R, Aiuti F. Aspetti immunologici della rettocolite ulcerosa [Immunological aspects of ulcerative rectocolitis]. *Recenti Prog Med.* 1977 Sep;63(3):213-27.
- Paganelli R, Ramadas D, Layward L, Harvey BA, Soothill JF. Maternal smoking and cord blood immunity function. *Clin Exp Immunol.* 1979 May;36(2):256-9.
- Pandolfi F, Paganelli R, Sirianni MC, D'Amelio R, Aiuti F. Rosette formation with mouse erythrocytes by lymphocytes from normal donors and patients with various diseases. *Z Immunitätsforsch Immunobiol.* 1979 Jun;155(5):378-86.
- Paganelli R, Levinsky RJ, Brostoff J, Wraith DG. Immune complexes containing food proteins in normal and atopic subjects after oral challenge and effect of sodium cromoglycate on antigen absorption. *Lancet.* 1979 Jun 16;1(8129):1270-2.
- Pandolfi F, Paganelli R, Ragona G, Quinti I, Aiuti F. Mouse rosette forming cells and surface immunoglobulins in human lymphoid cells. *Boll Ist Sieroter Milan.* 1979 Nov 30;58(5):423-8.

- Paganelli R, Levinsky RJ. Solid phase radioimmunoassay for detection of circulating food protein antigens in human serum. *J Immunol Methods*. 1980;37(3-4):333-41. doi: 10.1016/0022-1759(80)90319-1.
- Paganelli R, Ngu JL, Levinsky RJ. Circulating immune complexes in onchocerciasis. *Clin Exp Immunol*. 1980 Mar;39(3):570-5.
- Paganelli R, Soothill JF, Marshall WC, Hamblin AS. Transfer factor and cytomegalovirus viraemia. *Lancet*. 1981 Jan 31;1(8214):273-4. Paganelli R. Ruolo fisiopatologico dell'assorbimento intestinale di antigeni alimentari. *Recenti Prog Med*. 1981 May;70(5):487-93.
- Roberts SA, Reinhardt MC, Paganelli R, Levinsky RJ. Specific antigen exclusion and non-specific facilitation of antigen entry across the gut in rats allergic to food proteins. *Clin Exp Immunol*. 1981 Jul;45(1):131-6.
- Paganelli R, Levinsky RJ, Atherton DJ. Detection of specific antigen within circulating immune complexes: validation of the assay and its application to food antigen-antibody complexes formed in healthy and food-allergic subjects. *Clin Exp Immunol*. 1981 Oct;46(1):44-53.
- Paganelli R, Levinsky RJ. Differences in specific antibody responses of human tonsillar cells to an oral and a parenteral antigen. *Scand J Immunol*. 1981 Oct;14(4):353-8.
- Paganelli R. Spontaneous suppressor cells for mitogen responsiveness of cord blood lymphocytes. *Clin Immunol Immunopathol*. 1981 Dec;21(3):295-300.
- Robertson DM, Paganelli R, Dinwiddie R, Levinsky RJ. Milk antigen absorption in the preterm and term neonate. *Arch Dis Child*. 1982 May;57(5):369-72.
- Businco L, Rossi P, Paganelli R, Seminara R, Aiuti F. Immunologic reconstitution with bone marrow transplantation and thymic hormones in two patients with severe pure T-cell defects. *Birth Defects Orig Artic Ser*. 1983;19(3):281-5.
- Turner MW, Paganelli R, Levinsky RJ, Williams A. Antigen-binding radioimmunoassays for human IgG antibodies to bovine beta-lactoglobulin. *J Immunol Methods*. 1983 Jan 28;56(2):175-83.
- Aiuti F, Sirianni MC, Paganelli R, Stella A, Turbessi G, Fiorilli M. A placebo-controlled trial of thymic hormone treatment of recurrent herpes simplex labialis infection in immunodeficient hosts. *Int J Clin Pharmacol Ther Toxicol*. 1983 Feb;21(2):81-6.
- Paganelli R, Aiuti F, Beverley PC, Levinsky RJ. Impaired production of interleukins in patients with cell-mediated immunodeficiencies. *Clin Exp Immunol*. 1983 Feb;51(2):338-44.
- Paganelli R, Atherton DJ, Levinsky RJ. Differences between normal and milk allergic subjects in their immune responses after milk ingestion. *Arch Dis Child*. 1983 Mar;58(3):201-6.
- 20: Fiorilli M, Businco L, Pandolfi F, Paganelli R, Russo G, Aiuti F. Heterogeneity of immunological abnormalities in ataxia-telangiectasia. *J Clin Immunol*. 1983 Apr;3(2):135-41.
- Aiuti F, Paganelli R. Food allergy and gastrointestinal diseases. *Ann Allergy*. 1983 Aug;51(2 Pt 2):275-80.
- Reinhardt MC, Paganelli R, Levinsky RJ. Intestinal antigen handling at mucosal surfaces in health and disease: human and experimental studies. *Ann Allergy*. 1983 Aug;51(2 Pt 2):311-4.
- Aiuti F, Sirianni MC, Fiorilli M, Paganelli R, Stella A, Turbessi G. A placebo-controlled trial of thymic hormone treatment of recurrent herpes simplex labialis infection in immunodeficient host: results after a 1-year follow-up. *Clin Immunol Immunopathol*. 1984 Jan;30(1):11-8.
- Paganelli R, Matricardi PM, Aiuti F. Interactions of food antigens, antibodies, and antigen-antibody complexes in health and disease. *Clin Rev Allergy*. 1984 Feb;2(1):69-78.
- Matricardi PM, Capobianchi MR, Paganelli R, Facchini J, Sirianni MC, Seminara R, Dianzani F, Aiuti F. Interferon production in primary immunodeficiencies. *J Clin Immunol*. 1984 Sep;4(5):388-94.

- Paganelli R, Capobianchi MR, Matricardi PM, Cioè L, Seminara R, Dianzani F, Aiuti F. Defective interferon-gamma production in ataxia-telangiectasia. *Clin Immunol Immunopathol.* 1984 Sep;32(3):387-91.
- Businco L, Rossi P, Paganelli R, Galli E, DiGilio G, Lulli P, Aiuti F. Bone marrow transplantation and thymopoietin pentapeptide treatment in two infants with immunodeficiency with predominant T-cell defects. *Clin Immunol Immunopathol.* 1984 Oct;33(1):123-30.
- D'Amelio R, Fattorossi A, Berti R, Rossi P, Paganelli R, Castagliuolo PP. Serum IgG, IgA, IgM, IgE, salivary IgA levels and lung function in a healthy male population from the Italian Air Force: a preliminary study. *Ann Allergy.* 1984 Nov;53(5):432-5.
- Paganelli R, Pallone F, Montano S, Le Moli S, Matricardi PM, Fais S, Paoluzi P, D'Amelio R, Aiuti F. Isotypic analysis of antibody response to a food antigen in inflammatory bowel disease. *Int Arch Allergy Appl Immunol.* 1985;78(1):81-5.
- Le Moli S, Paganelli R, Sirianni MC, Nisini R, Quinti I, Seminara R, D'Amelio R, Aiuti F. Gli effetti in vitro del lisozima su alcune funzioni specifiche e non specifiche del sistema immunitario. *Boll Ist Sieroter Milan.* 1986;65(4):283-9.
- Paganelli R, Quinti I, D'Offizi GP, Papetti C, Cabello A, Aiuti F. A study of IgE in immunoglobulin preparations for intravenous administration. I. IgE in intravenous IgG. *Vox Sang.* 1986;51(2):87-91.
- Fiorilli M, Russo G, Paganelli R, Papetti C, Carbonari M, Crescenzi M, Calvani M, Quinti I, Aiuti F. Hypogammaglobulinemia with hyper-IgM, severe T-cell defect, and abnormal recirculation of OKT4 lymphocytes in a girl with chronic lymphadenopathy. *Clin Immunol Immunopathol.* 1986 Feb;38(2):256-64.
- Businco L, Rubaltelli FF, Paganelli R, Galli E, Ensoli B, Betti P, Aiuti F. Results in two infants with the DiGeorge syndrome--effects of long-term TP5. *Clin Immunol Immunopathol.* 1986 May;39(2):222-30.
- Paganelli R, Sgambato F, Carbonari M, Buono G, Bonomo R, Pontesilli O. Cow's milk hypersensitivity in an elderly woman: clinical and immunologic findings. *Ann Allergy.* 1986 Jun;56(6):480-3.
- Viganò T, Sautebin L, Magni F, Crivellari MT, Paganelli R, Galli G, Berti F, Folco G. Stimulus-related difference in the formation of leukotrienes and PGD2 after immunological and non-immunological challenge of human lung parenchyma "in vitro". *Prostaglandins Leukot Med.* 1986 Aug;23(2-3):109-15. doi: 10.1016/0262-1746(86)90172-1.
- Paganelli R, Quinti I, Carbonari M, Pontesilli O, D'Offizi GP, Letta T, Aiuti F. IgG anti-IgE in circulating immune complexes in the hyper-IgE syndrome. *Clin Allergy.* 1986 Nov;16(6):513-21.
- Paganelli R, Cavagni G, Pallone F. The role of antigenic absorption and circulating immune complexes in food allergy. *Ann Allergy.* 1986 Nov;57(5):330-6.
- Businco L, Di Fazio A, Ziruolo MG, Boner AL, Valletta EA, Ruco LP, Vitolo D, Ensoli B, Paganelli R. Clinical and immunological findings in four infants with Omenn's syndrome: a form of severe combined immunodeficiency with phenotypically normal T cells, elevated IgE, and eosinophilia. *Clin Immunol Immunopathol.* 1987 Aug;44(2):123-33.
- Quinti I, Papetti C, Paganelli R, D'Amelio R, Nisini R, D'Offizi G, Aiuti F. Evaluation of the presence of RF-like activities in immunoglobulin preparations for intravenous use. I. IgG anti-IgE in intravenous Ig. *J Clin Lab Immunol.* 1987 Nov;24(3):135-8.
- **40:** Paganelli R, Quinti I, D'Offizi GP, Papetti C, Carini C, Aiuti F. Immune complexes in food allergy: a critical reappraisal. *Ann Allergy.* 1987 Nov;59(5 Pt 2):157-61.
- Paganelli R, Sgambato F, D'Offizi GP, Scott JR, Rock HS, Di Nunzio D, Caporaso C, Halpern GM. IgE and IgG4 levels in allergic patients during immunotherapy. *N Engl Reg Allergy Proc.* 1987

- Nov-Dec;8(6):393-400.
- Biancone L, Paganelli R, Fais S, Squarcia O, D'Offizi G, Pallone F. Peripheral and intestinal lymphocyte activation after in vitro exposure to cow's milk antigens in normal subjects and in patients with Crohn's disease. *Clin Immunol Immunopathol.* 1987 Dec;45(3):491-8.
 - Quinti I, Papetti C, D'Offizi G, Cavagni G, Panchor ML, Lunardi C, Paganelli R. IgG subclasses to food antigens. *Allerg Immunol (Paris).* 1988 Feb;20(2):41, 43-4.
 - Paganelli R, Capobianchi MR, Ensoli B, D'Offizi GP, Facchini J, Dianzani F, Aiuti F. Evidence that defective gamma interferon production in patients with primary immunodeficiencies is due to intrinsic incompetence of lymphocytes. *Clin Exp Immunol.* 1988 Apr;72(1):124-9.
 - Paganelli R, Quinti I, D'Offizi GP, Papetti C, Nisini R, Aiuti F. Studies on the in vitro effects of auto-anti-IgE. Inhibition of total and specific serum IgE detection by a human IgG autoantibody to IgE. *J Clin Lab Immunol.* 1988 Jul;26(3):153-7.
 - Cavagni G, Paganelli R, Caffarelli C, D'Offizi GP, Bertolini P, Aiuti F, Giovannelli G. Passage of food antigens into circulation of breast-fed infants with atopic dermatitis. *Ann Allergy.* 1988 Nov;61(5):361-5.
 - Fagiolo U, Paganelli R, Ossi E, Quinti I, Cancian M, D'Offizi GP, Fiocco U. Intestinal permeability and antigen absorption in rheumatoid arthritis. Effects of acetylsalicylic acid and sodium cromoglycate. *Int Arch Allergy Appl Immunol.* 1989;89(1):98-102.
 - Paganelli R, Capobianchi MR, D'Offizi GP, Mezzaroma I, Cherchi M, Di Marco P, Dianzani F, Aiuti F. Alpha interferon treatment in HIV infected patients restores gamma interferon production in vitro. *Boll Ist Sieroter Milan.* 1989;68(1):67-71.
 - Quinti I, Paganelli R, Marone G, Aiuti F. IgG anti IgE in atopic dermatitis. *Acta Derm Venereol Suppl (Stockh).* 1989;144:67-9.
 - Paganelli R, Scala E, Guerra E, Quinti I. Role of immune complexes in atopic dermatitis. *Allergy.* 1989;44 Suppl 9:65-9.
 - Paganelli R, Quinti I. Pathological significance of circulating IgG anti-IgE complexes. *Monogr Allergy.* 1989;26:184-97.
 - Quinti I, Paganelli R, Scala E, Guerra E, Aiuti F. Humoral response to food antigens. *Allergy.* 1989;44 Suppl 9:59-64.
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 - Paganelli R, Fagiolo U, Cancian M, Sturniolo GC, Scala E, D'Offizi GP. Intestinal permeability in irritable bowel syndrome. Effect of diet and sodium cromoglycate administration. *Ann Allergy.* 1990 Apr;64(4):377-80.
 - De Santis A, Paganelli R, Stefanoni R, Di Sabatino A, Angelico M. Prevalence of gallstones in patients with primary immunoglobulin deficiency. Evidence for lack of association. *Dig Dis Sci.* 1990 Jun;35(6):716-20.
 - Quinti I, Paganelli R, Scala E, Guerra E, Mezzaroma I, D'Offizi GP, Aiuti F. Hepatitis C virus antibodies in gammaglobulin. *Lancet.* 1990 Dec 1;336(8727):1377.
 - Paganelli R, Fanales-Belasio E, Carmini D, Scala E, Meglio P, Businco L, Aiuti F. Serum

- eosinophil cationic protein in patients with atopic dermatitis. *Int Arch Allergy Appl Immunol*. 1991;96(2):175-8.
- **60:** Paganelli R, Fagiolo U, Cancian M, Scala E. Intestinal permeability in patients with chronic urticaria-angioedema with and without arthralgia. *Ann Allergy*. 1991 Feb;66(2):181-4.
 - Biancone L, Boirivant M, Fais S, Ricci GL, Paganelli R, Pallone F. Serum immunomodulatory factors in gastrointestinal diseases. A 30-50-kD serum fraction in Crohn's disease capable of modulating lymphocyte activation. *Clin Exp Immunol*. 1991 Mar;83(3):401-6.
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 - Paganelli R, Quinti I, di Sabatino A, d'Offizi GP, Scala E, Meglio P, Aiuti F. Topical flunisolide treatment of perennial rhinitis: clinical and immunological effects. *Allergol Immunopathol (Madr)*. 1991 Sep-Oct;19(5):194-6.
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