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Professor of Immunology at Bari University, School of Medicine since 1986.

**Permanence abroad:**

Max Plank Institute for Immunobiology,

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**Fields of interest:**

Microbial immunity, mucosal immunology, neuroimmunology, immunonutrition.

**List of the major references**

Physical exercise and the immune system. Ranieri M, Megna M, Lancioni GE, Jirillo E, Amico AP, Nardulli M, Stasi M, Ianieri G, Saggini A, Megna G. *Int J Immunopathol Pharmacol*. 2009 Jul-Sep;22(3 Suppl):29-32.

Post-mortem Peyer's patches: their potential application in forensic medicine. Solarino B, Di Vella G, Magrone T, Jirillo F, Tafaro A, Piscitelli D, Casiello M, Amati L, Jirillo E, Tattoli L. *Immunopharmacol Immunotoxicol*. 2009;31(4):570-6.

Postmortem morphology and viability of human Peyer's Patches in distal ileum: a technical note. Solarino B, Di Vella G, Magrone T, Jirillo F, Tafaro A, Piscitelli D, Casiello M, Amati L, Jirillo E, Tattoli L. *Immunopharmacol Immunotoxicol*. 2009;31(4):563-9.

Vaccination-induced systemic autoimmunity in farmed Atlantic salmon. Koppang EO, Bjerkås I, Haugarvoll E, Chan EK, Szabo NJ, Ono N, Akikusa B, Jirillo E, Poppe TT, Sveier H, Tørud B, Satoh M. *J Immunol*. 2008 Oct 1;181(7):4807-14.

Relationship among fatty liver, adipose tissue distribution and metabolic profile in moderately obese children: an ultrasonographic study. Chiloiro M, Riezzo G, Chiarappa S, Correale M, Guerra V, Amati L, Noviello MR, Jirillo E. *Curr Pharm Des*. 2008;14(26):2693-8.

Early pathogenesis of atherosclerosis: the childhood obesity. Amati L, Chiloiro M, Jirillo E, Covelli V. *Curr Pharm Des.* 2007;13(36):3696-700.

Drug targets in ageing and age-associated diseases. Caruso C, Jirillo E. *Curr Pharm Des.* 2008; 14(26):2635-6.

Molecular effects elicited in vitro by red wine on human healthy peripheral blood mononuclear cells: potential therapeutical application of polyphenols to diet-related chronic diseases. Magrone T, Panaro MA, Jirillo E, Covelli V. *Curr Pharm Des.* 2008;14(26):2758-66.

Elicitation of immune responsiveness against antigenic challenge in age-related diseases: effects of red wine polyphenols. Magrone T, Tafaro A, Jirillo F, Amati L, Jirillo E, Covelli V. *Curr Pharm Des.* 2008;14(26):2749-57.

Polyphenols from red wine modulate immune responsiveness: biological and clinical significance. Magrone T, Candore G, Caruso C, Jirillo E, Covelli V. *Curr Pharm Des.* 2008;14(26):2733-48.

A scientific approach to anti-ageing therapies: state of the art. Jirillo E, Candore G, Magrone T, Caruso C. *Curr Pharm Des.* 2008;14(26):2637-42.

Red wine consumption and prevention of atherosclerosis: an in vitro model using human peripheral blood mononuclear cells. Magrone T, Tafaro A, Jirillo F, Panaro MA, Cuzzuol P, Cuzzuol AC, Pugliese V, Amati L, Jirillo E, Covelli V. *Curr Pharm Des.* 2007;13(36):3718-25.

Immunological properties of donkey's milk: its potential use in the prevention of atherosclerosis. Tafaro A, Magrone T, Jirillo F, Martemucci G, D'Alessandro AG, Amati L, Jirillo E. *Curr Pharm Des.* 2007;13(36):3711-7.

Hereditary haemorrhagic telangiectasia: a rare disease as a model for the study of human atherosclerosis. Lenato GM, Suppressa P, Giordano P, Guanti G, Guastamacchia E, Triggiani V, Amati L, Resta F, Covelli V, Jirillo E, Sabbà C. *Curr Pharm Des.* 2007;13(36):3656-64.

Immune-mediated mechanisms in atherosclerosis: prevention and treatment of clinical manifestations. Jirillo E. *Curr Pharm Des.* 2007;13(36):3648.

Inflammation in fish as seen from a morphological point of view with special reference to the vascular compartment. Koppang EO, Fischer U, Satoh M, Jirillo E. *Curr Pharm Des.* 2007;13(36):3649-55.

Antigenically activated avian erythrocytes release cytokine-like factors: a conserved phylogenetic function discovered in fish. Passantino L, Massaro MA, Jirillo F, Di Modugno D, Ribaud MR, Modugno GD, Passantino GF, Jirillo E. *Immunopharmacol Immunotoxicol.* 2007;29(1):141-52.

In vitro elicitation of intestinal immune responses in teleost fish: evidence for a type IV hypersensitivity reaction in rainbow trout. Jirillo F, Passantino G, Massaro MA, Cianciotta A, Crasto A, Perillo A, Passantino L, Jirillo E. *Immunopharmacol Immunotoxicol.* 2007;29(1):69-80.

[Correlations between splenectomy and allergic symptoms. Preliminary results of a study concerning IL-4 and IgE serum level] Miniello S, Jirillo E, Cristallo G, Marzaioli R, Lorusso C, Lippolis A, Giove E, Nacchiero M. *Ann Ital Chir.* 2007 Nov-Dec;78(6):499-502

New insights into the biological and clinical significance of fecal calprotectin in inflammatory bowel disease. Amati L, Passeri ME, Selicato F, Mastronardi ML, Penna A, Jirillo E, Covelli V. *Immunopharmacol Immunotoxicol.* 2006;28(4):665-81.

Bridges between nervous and immune systems: their disconnection and clinical consequences. Amati L, Selicato F, Ranieri M, Megna M, Galantino M, Miniello S, Megna G, Jirillo E. *Immunopharmacol Immunotoxicol.* 2006;28(4):633-50.

Stage of primary infection with lymphocytic choriomeningitis virus determines predisposition or resistance of mice to secondary bacterial infections. Gumenscheimer M, Balkow S, Simon MM, Jirillo E, Galanos C, Freudenberg MA. *Med Microbiol Immunol.* 2007 Jun;196(2):79-88.

In vitro infection of human monocyte-derived dendritic cells with *Candida albicans*: receptorial involvement and therapeutic implications. Pepe M, Jirillo E, Covelli V. *Curr Pharm Des.* 2006;12(32):4263-9.

Toll-like receptor-positive cells and recognition of pathogens: how human myeloid dendritic cells respond to in vitro infection with *Leishmania infantum*. Pepe M, Altamura M, Spinelli R, Calvello R, Saccia M, Cavallo P, Covelli V, Jirillo E, Brandonisio O. *Curr Pharm Des.* 2006;12(32):4255-62.

Toll-like receptor signaling mechanisms involved in dendritic cell activation: potential therapeutic control of T cell polarization. Amati L, Pepe M, Passeri ME, Mastronardi ML, Jirillo E, Covelli V. *Curr Pharm Des.* 2006;12(32):4247-54.

Patients with Hereditary Hemorrhagic Telangiectasia (HHT) exhibit a deficit of polymorphonuclear cell and monocyte oxidative burst and phagocytosis: a possible correlation with altered adaptive immune responsiveness in HHT. Cirulli A, Loria MP, Dambra P, Di Serio F, Ventura MT, Amati L, Jirillo E, Sabbà C. *Curr Pharm Des.* 2006;12(10):1209-15.

Ablation of T-helper 1 cell derived cytokines and of monocyte-derived tumor necrosis factor-alpha in hereditary hemorrhagic telangiectasia: immunological consequences and clinical considerations. Amati L, Passeri ME, Resta F, Triggiani V, Jirillo E, Sabbà C. *Curr Pharm Des.* 2006;12(10):1201-8.

Involvement of the transforming growth factor beta in the pathogenesis of hereditary hemorrhagic telangiectasia. Jirillo E, Amati L, Suppressa P, Cirimele D, Guastamacchia E, Covelli V, Tafaro E, Sabbà C. *Curr Pharm Des.* 2006;12(10):1195-200.

Taking advantage of viral immune evasion: virus-derived proteins represent novel biopharmaceuticals. Amati L, Passeri ME, Lippolis A, Lio D, Caruso C, Jirillo E, Covelli V. *Curr Med Chem.* 2006;13(3):325-33

Voltage-gated sodium channel blockers as immunomodulators. Roselli F, Livrea P, Jirillo E. *Recent Pat CNS Drug Discov.* 2006 Jan;1(1):83-91. Drug targets in stress-related disorders.

Saliva secretory IgA antibodies against molds and mycotoxins in patients exposed to toxigenic fungi. Chirigos MA, Jirillo E. *Immunopharmacol Immunotoxicol.* 2005;27(1):185.

Differential contribution of Toll-like receptors 4 and 2 to the cytokine response to *Salmonella enterica* serovar Typhimurium and *Staphylococcus aureus* in mice. Lembo A, Kalis C, Kirschning CJ, Mitolo V, Jirillo E, Wagner H, Galanos C, Freudenberg MA. *Infect Immun.* 2003 Oct;71(10):6058-62.

Modifications of the immune responsiveness in patients with autoimmune thyroiditis: evidence for a systemic immune alteration. Ciampolillo A, Guastamacchia E, Amati L, Magrone T, Munno I, Jirillo E, Triggiani V, Fallacara R, Tafaro E. *Curr Pharm Des.* 2003;9(24):1946-50.

Immune abnormalities and endotoxemia in patients with ulcerative colitis and in their first degree relatives: attempts at neutralizing endotoxin-mediated effects. Amati L, Caradonna L, Leandro G, Magrone T, Minenna M, Faleo G, Pellegrino NM, Jirillo E, Caccavo D. *Curr Pharm Des.* 2003;9(24):1937-45.

Therapeutic manipulation of the immune system: enhancement of innate and adaptive mucosal immunity. Boyaka PN, Tafaro A, Fischer R, Fujihashi K, Jirillo E, McGhee JR. *Curr Pharm Des.* 2003;9(24):1965-72.

Postsplenectomy immunodepression and its implications: an underestimated problem. Miniello S, Testini M, Jirillo E, Piccinni G, Urgesi G, Lissidini G, Angrisano A, Tomasicchio N, Bonomo GM. *Int Surg.* 2002 Oct-Dec;87(4):245-51.

Antimicrobial and immunoregulatory functions of lactoferrin and its potential therapeutic application. Caccavo D, Pellegrino NM, Altamura M, Rigon A, Amati L, Amoroso A, Jirillo E. *J Endotoxin Res.* 2002;8(6):403-17.

*Helicobacter pylori* organisms induce expression of activation and apoptotic surface markers on human lymphocytes and AGS cells: a cytofluorimetric evaluation. Lembo A, Caradonna L, Magrone T, Mastronardi ML, Caccavo D, Jirillo E, Amati L. *Immunopharmacol Immunotoxicol.* 2002 Nov;24(4):567-82.

A comparative study between conventional and laparoscopic cholecystectomy: evaluation of phagocytic and T-cell-mediated antibacterial activities. Altamura M, Tafaro A, Casale D, Pepe M, Colella R, Jirillo E, Venezia P. *J Clin Gastroenterol.* 2002 Feb;34(2):135-40.

The role of the liver in the response to LPS: experimental and clinical findings. Jirillo E, Caccavo D, Magrone T, Piccigallo E, Amati L, Lembo A, Kalis C, Gumenscheimer M. *J Endotoxin Res.* 2002;8(5):319-27.

*Helicobacter pylori* infection, immune response and vaccination. Lembo A, Caradonna L, Magrone T, Mastronardi ML, Caccavo D, Jirillo E, Amati L. *Curr Drug Targets Immune Endocr Metabol Disord.* 2001 Nov;1(3):199-208.