



**Coordinatore: Prof. Carlo RICCARDI**

**Tel.: 075 585 8113**

**E-mail: [carlo.riccardi@unipg.it](mailto:carlo.riccardi@unipg.it)**

**Segreteria:tel.: 075-585 8115**

**e-mail: [francesca.fabbrizi@unipg.it](mailto:francesca.fabbrizi@unipg.it)**

#### **Pubblicazioni selezionate (2011-2016)**

1. Induction of glucocorticoid-induced leucine zipper (GILZ) contributes to anti-inflammatory effects of the natural product curcumin in macrophages. Hoppstädter J, Hachenthal N, Valbuena-Perez JV, Lampe S, Astanina K, Kunze MM, Bruscoli S, Riccardi C, Schmid T, Diesel B, Kiemer AK. JOURNAL OF BIOLOGICAL CHEMISTRY. 2016 Sep 14. [Epub ahead of print]
2. Modulation of tumor immunity: a patent evaluation of WO2015026684A1. Nocentini G, Cari L, Ronchetti S, Riccardi C. EXPERT OPINION ON THERAPEUTIC PATENTS.2016;26(3):417-25.
3. The use of mesenchymal stem cells for the treatment of autoimmunity: from animals models to human disease. Delfino Domenico V.. CURRENT DRUG TARGETS. 2016;17(2):229-38.
4. Lack of Glucocorticoid-induced leucine zipper (GILZ) deregulates B cell survival and results in B cell lymphocytosis in mice.. Bruscoli S; Biagioli M; Sorcini D; Frammartino T; Cimino M; Sportoletti P; Mazzon E; Bereshchenko O; Riccardi C. BLOOD. 2015; 126(15):1790-801.
5. The energy blockers bromopyruvate and lonidamine lead GL15 glioblastoma cells to death by different p53-dependent routes. Davidescu Magdalena; Macchioni Lara; Marchetti Maria Cristina; Migliorati Graziella; Roberti Rita; Castigli Emilia; Corazzi Lanfranco. SCIENTIFIC REPORTS. 2015 Sep 21;5:14343
6. Artesunate induces ROS- and p38 MAPK-mediated apoptosis and counteracts tumor growth in vivo in embryonal rhabdomyosarcoma cells. Beccafico S; Morozzi G; Marchetti MC; Riccardi C; Sidoni A; Donato R; Sorci G.. CARCINOGENESIS. 2015; 36(9):1071-83.
7. Glucocorticoid-induced leucine zipper (GILZ): a critical factor in macrophage endotoxin tolerance. Jessica Hoppstädter; Sonja Kessler; Stefano Bruscoli; Hanno Huwer; Carlo Riccardi; Alexandra Kiemer. JOURNAL OF IMMUNOLOGY. 2015 ;194(12):6057-67
8. The role and effects of glucocorticoid-induced leucine zipper in the context of inflammation resolution. Vago Juliana P; Tavares Luciana P; Garcia Cristiana C; Lima Kátia M; Perucci Luiza O; Vieira Érica L; Nogueira Camila R C; Soriani Frederico M; Martins Joilson O; Silva Patrícia M R; Gomes Karina B; Pinho Vanessa; Bruscoli Stefano; Riccardi Carlo; Beaulieu Elaine; Morand Eric F; Teixeira Mauro M; Sousa Lirlândia P. JOURNAL OF IMMUNOLOGY. 2015 ;194(10):4940-50.
9. The expanding role of immunopharmacology - IUPHAR Review 16. Tiligada Ekaterini; Ishii Masaru; Riccardi Carlo; Spedding Michael; Simon Hans-Uwe; Teixeira Mauro Martins; Landys Chovel Cuervo Mario; Holgate Stephen T; Levi-Schaffer Francesca. BRITISH JOURNAL OF PHARMACOLOGY. 2015 ;172(17):4217-27..
10. Is  $\beta$ -catenin neutralization cross-involved in the mechanisms mediated by natalizumab action?. Maria Galuppo; Emanuela Mazzon; Giacompo Sabrina; Oxana Bereshchenko; Stefano Bruscoli; Carlo Riccardi; Placido Bramanti.. CURRENT MOLECULAR MEDICINE. . 2015; 15(10):990-3.
11. The viability of Lactobacillus fermentum CECT5716 is not essential to exert intestinal anti-inflammatory properties. Rodríguez-Nogales Alba; Algieri Francesca; Vezza Teresa; Garrido-Mesa Natividad; Olivares Mónica; Comalada Mònica; Riccardi Carlo; Utrilla Ma Pilar; Rodríguez-Cabezas Ma Elena; Galvez Julio. FOOD & FUNCTION. 2015 ;6(4):1176-84..
12. Glucocorticoid-induced tumour necrosis factor receptor-related protein: a key marker of functional regulatory T cells Ronchetti S, Ricci E, Petrillo MG, Cari L, Migliorati G, Nocentini G, Riccardi C. . J Immunol Res. 2015;2015:171520.
13. GILZ as a Mediator of the Anti-Inflammatory Effects of Glucocorticoids. Ronchetti S, Migliorati G, Riccardi C. Front Endocrinol (Lausanne). 2015 Nov 9;6:170. eCollection 2015. Review.
14. A focused Real Time PCR strategy to determine GILZ expression in mouse tissues Cari L, Ricci E, Gentili M, Petrillo MG, Ayroldi E, Ronchetti S, Nocentini G, Riccardi C. . Results Immunol. 2015 Oct 21;5:37-42. eCollection 2015.
15. GILZ promotes production of peripherally induced Treg cells and mediates the crosstalk between glucocorticoids and TGF- $\beta$  signaling. Bereshchenko O; Coppo M; Bruscoli S; Biagioli M; Cimino M; Frammartino T; Sorcini D; Venanzi A; Di Sante M; Riccardi C. CELL REPORTS. 2014 ;7(2):464-75. .
16. The novel partnership of L-GILZ and p53: a new affair in cancer? Ayroldi E, Marchetti C, Riccardi C. Mol Cell Oncol. 2014 Dec 1;2(2):e975087. eCollection 2015

17. Transcriptional regulation of kinases downstream of the T cell receptor: another immunomodulatory mechanism of glucocorticoids. Petrillo MG, Fettucciari K, Montuschi P, Ronchetti S, Cari L, Migliorati G, Mazzon E, Bereshchenko O, Bruscoli S, Nocentini G, Riccardi C. *BMC Pharmacol Toxicol.* 2014 Jul 3;15:35
18. L-GILZ binds p53 and MDM2 and suppresses tumor growth through p53 activation in human cancer cells. Ayroldi E; Petrillo M G; Bastianelli A; Marchetti M C; Ronchetti S; Nocentini G; Ricciotti L; Cannarile L; Riccardi C. *CELL DEATH AND DIFFERENTIATION.* 2014 ;22(1):118-30.
19. Role of caspase-8 in thymus function. Pozzesi N; Fierabracci A; Liberati AM; Martelli MP; Ayroldi E; Riccardi C; Delfino DV. *CELL DEATH AND DIFFERENTIATION.* 2014 ;21(2):226-33..
20. GITR+ regulatory T cells in the treatment of autoimmune diseases. Maria Grazia Petrillo; Simona Ronchetti; Erika Ricci; Alessia Alunno; Roberto Gerli; Giuseppe Nocentini; Carlo Riccardi. *AUTOIMMUNITY REVIEWS.* 2014; 14(2):117-26.
21. Recent insights on the putative role of autophagy in autoimmune diseases. Giancicchetti E; Delfino DV; Fierabracci A. *AUTOIMMUNITY REVIEWS.* 2014 ;13(3):231-41.
22. Targeting glucocorticoid side effects: selective glucocorticoid receptor modulator or glucocorticoid-induced leucine zipper? A perspective. Ayroldi E; Macchiarulo A; Riccardi C. *FASEB JOURNAL.* 2014 ; 28(12):5055-70. .
23. Hepatocyte growth factor limits autoimmune neuroinflammation via GILZ expression in dendritic cells. M Benkhoucha; N Molnarfi; I Dunand-Sauthier; D Merkler; G Schneider; S Bruscoli; C Riccardi; Y Tabata; I Funakoshi; T Nakamura; ML Santiago-Raber; PH Lalive. *JOURNAL OF IMMUNOLOGY.* 2014 ;193(6):2743-52.
24. Pharmacological modulation of caspase-8 in thymus-related medical conditions.. Pozzesi N;Fierabracci A;Thuy TT;Martelli MP;Liberati AM;Ayroldi E;Riccardi C;Delfino DV. *JOURNAL OF PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS* 2014; 351(1):18-24..
25. Glucocorticoid-Induced Leucine Zipper (GILZ) controls inflammation and tissue damage after spinal cord injury.. Emanuela Mazzon; Stefano Bruscoli; Maria Galuppo; Michele Biagioli; Daniele Sorcini; Oxana Bereshchenko; Chiara Fiorucci; Graziella Migliorati; Placido Bramanti; Carlo Riccardi. *CNS NEUROSCIENCE & THERAPEUTICS.* 2014 ;20(11):973-81.
26. Expansion of regulatory GTR+CD25low/-CD4+ T cells in systemic lupus erythematosus patients. Nocentini G; Alunno A; Petrillo MG; Bistoni O; Bartoloni E; Caterbi S; Ronchetti S; Migliorati G; Riccardi C; Gerli R. *ARTHRITIS RESEARCH & THERAPY.* 2014 ;16(5):444. .
27. Recombinant long-Glucocorticoid-induced leucine zipper (L-GILZ) protein restores the control of proliferation in gilz KO spermatogonia. A Venanzi; M Di Sante; S Bruscoli; M Biagioli; D Sorcini; M Cimino; T Frammartino; O Bereshchenko; F Franconi; C Riccardi.. *EUROPEAN JOURNAL OF PHARMACEUTICAL SCIENCES.* 2014 ; 63:22-8. .
28. Eicosapentaenoic acid activates RAS/ERK/C/EBP $\beta$  pathway through H-Ras intron 1 CpG island demethylation in U937 leukemia cells.. Ceccarelli V;Nocentini G;Billi M;Racanicchi S;Riccardi C;Roberti R;Grignani F;Binaglia L;Vecchini A. *PLOS ONE.* 2014 ;9(1):e85025.
29. Cocaine Addiction Treatment and Home Remedies: Use of the Scopolamine Transdermal Patch. Gambelunghe C; Bacci M; Aroni K; De Falco F; Ayroldi EM.. *SUBSTANCE USE & MISUSE.* 2014;49, 1-6.
30. The human NPM1 mutation A perturbs megakaryopoiesis in a conditional mouse model.. Sportoletti P;Varasano E;Rossi R;Bereshchenko O;Cecchini D;Gionfriddo I;Bolli N;Tiacci E;Intermesoli T;Zanghì P;Masciulli A;Martelli MP;Falzetti F;Martelli MF;Falini B. *BLOOD.* 2013 ;121(17):3447-58..
31. LPS resistance of SPRET/Ei mice is mediated by GILZ, encoded by the Tsc22d gene on the X chromosome. Pinheiro I; Dejager L; Petta I; Vandevyver S; Piumège L; Mahieu T; Hauwermeiren FV; Ballegeer M; Riccardi C; Vuylsteke M; Libert C.. *EMBO MOLECULAR MEDICINE.* 2013 ;5(3):456-70.
32. Recent insights into the role of the PD-1/PD-L1 pathway in immunological tolerance and autoimmunity.. Giancicchetti E;Delfino DV;Fierabracci A. *AUTOIMMUNITY REVIEWS.* 2013 ;12(11):1091-100.
33. Characterization of a new regulatory CD4+ T cell subset in primary Sjogren's syndrome.. Alunno A; Petrillo MG; Nocentini G; Bistoni O; Bartoloni E; Caterbi S; Bianchini R; Baldini C; Nicoletti I; Riccardi C; Gerli R.. *RHEUMATOLOGY.* 2013 ;52(8):1387-96. .
34. Glucocorticoid-induced tumor necrosis factor receptor family-related ligand triggering upregulates vascular cell adhesion molecule-1 and intercellular adhesion molecule-1 and promotes leukocyte adhesion. Pedro Miguel Lacal; Maria Grazia Petrillo; Federica Ruffini; Alessia Muzi; Rodolfo Bianchini; Simona Ronchetti; Graziella Migliorati; Carlo Riccardi; Grazia Graziani;Giuseppe Nocentini. *JOURNAL OF PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS.* 2013; 347(1):164-72..
35. Phosphatidylserine metabolism modification precedes manganese-induced apoptosis and phosphatidylserine exposure in PC12 cells.. Ferrara G;Gambelunghe A;Mozzi R;Marchetti M.C;Migliorati G;Muzi G;Buratta S. *NEUROTOXICOLOGY.* 2013 ;39:25-34..
36. Dexamethasone-FITC staining application for measurement of circadian rhythmicity of glucocorticoid receptor expression in mouse living thymocyte subsets. Kowalik A;Kiernozek E;Kulinczak M;Brodaczewska K;Kozłowska E;Gieczewska K;Riccardi C;Drela N. *JOURNAL OF NEUROIMMUNOLOGY.* 2013 ;261(1-2):44-52..
37. Isolation, characterisation and biological evaluation of a phenoxazine, a natural dyestuff isolated from leaves of *Peristrophe bivalvis*.. Thuy TT;Huong NT;Nhung le TH;Ninh PT;Delfino DV;Van Sung T. *NATURAL PRODUCT RESEARCH.* 2013 27(8):771-4.

38. Characterization of CD4+ and CD8+ Tregs in a Hodgkin's lymphoma patient presenting with myasthenia-like symptoms.. Krausz LT;Major ZZ;Muresanu DF;Chelaru E;Nocentini G;Riccardi C. IDEGGYÓGYÁSZATI SZEMLE. 2013 ;66(9-10):343-8. .
39. Pontin is essential for murine hematopoietic stem cell survival. Bereshchenko O.; Mancini E.; Luciani L; Gambardella A.; Riccardi C; Nerlov C.. HAEMATOLOGICA. 2012 ;97(9):1291-4.
40. Glucocorticoid induced leucine zipper (GILZ) over-expression in T lymphocytes inhibits inflammation and tissue damage in spinal cord injury. E. Esposito; S. Bruscoli; E. Mazzon; I. Paterniti; M. Coppo; E. Velardi; S. Cuzzocrea; C. Riccardi. NEUROTHEAPEUTICS. 2012 ;9(1):210-25..
41. Mechanisms of the anti-inflammatory effects of glucocorticoids: genomic and non-genomic interference with mapk signaling pathways. Ayroldi E.M.; Cannarile L.; Migliorati G.; Nocentini G.; Delfino D.V.; Riccardi C.. FASEB JOURNAL. 2012 ;26(12):4805-20.
42. Pharmacological modulation of GITRL/GITR system: therapeutic perspectives. G. Nocentini; S. Ronchetti; M. G. Petrillo; C. Riccardi. BRITISH JOURNAL OF PHARMACOLOGY. 2012 ;165(7):2089-99.
43. Long-Glucocorticoid-Induced Leucine Zipper (L-GILZ) protein interacts with Ras protein pathway and contributes to spermatogenesis control. S. Bruscoli; E. Velardi; M. Di Sante; O. Bereshchenko; A. Venanzi; M. Coppo; V. Bero; M.G.Mameli; R. Colella; A. Cavaliere; C. Riccardi. THE JOURNAL OF BIOLOGICAL CHEMISTRY. 2012 ;287(2):1242-51.
44. Murine B Cell Development and Antibody Responses to Model Antigens Are Not Impaired in the Absence of the TNF Receptor GITR. L.S. Teodorovic; C. Riccardi; R.M. Torres; R. Pelanda. PLOS ONE. 2012 ;7(2):e31632..
45. Balance between Regulatory T and Th17 Cells in Systemic Lupus Erythematosus: The Old and the New. Alunno A; Bartoloni E; Bistoni O; Nocentini G; Ronchetti S; Caterbi S; Valentini V; Riccardi C; Gerli R.. CLINICAL & DEVELOPMENTAL IMMUNOLOGY. 2012 ;2012:823085. .
46. CD8+ Tcells: GITR matters. S. Ronchetti; G. Nocentini; M.G. Petrillo; C. Riccardi. THE SCIENTIFIC WORLD JOURNAL. 2012 ;2012:823085.
47. The intracellular portion of GITR enhances NGF-promoted neurite growth through an inverse modulation of Erk and NF- $\kappa$ B signalling. McKelvey L, Gutierrez H, Nocentini G, Crampton SJ, Davies AM, Riccardi CR, O'keeffe GW. Biol Open. 2012 Oct 15;1(10):1016-23.
48. Glucocorticoid-induced activation of caspase-8 protects the glucocorticoid-induced protein Gilz from proteasomal degradation and induces its binding to Sumo-1 in murine thymocytes. D. Delfino; Spinicelli S; Pozzesi N; Pierangeli S; Velardi E; Bruscoli S; Martelli Mp; Pettirossi V; Falchi L; Kang Tb; Riccardi C;. Cell Death And Differentiation.. 2011 ;18(1):183-90..
49. CD4(+) CD25(low) GITR(+) cells: a novel human CD4(+) T-cell population with regulatory activity.. Bianchini R;Bistoni O;Alunno A;Petrillo MG;Ronchetti S;Sportoletti P;Bocci EB;Nocentini G;Gerli R;Riccardi C. EUROPEAN JOURNAL OF IMMUNOLOGY. 2011 ;41(8):2269-78. .
50. Eicosapentaenoic acid demethylates a single CpG that mediates expression of tumor suppressor CCAAT/enhancer-binding protein delta in U937 leukemia cells.. Ceccarelli V;Racanicchi S;Martelli MP;Nocentini G;Fettucciari K;Riccardi C;Marconi P;Di Nardo P;Grignani F;Binaglia L;Vecchini A. THE JOURNAL OF BIOLOGICAL CHEMISTRY. 2011 ;286(31):27092-102..
51. The glucocorticoid-induced TNF receptor family-related protein (GITR) is critical to the development of acute pancreatitis in mice. M. Galluppo; G. Nocentini ; E. Mazzon; S. Ronchetti; E. Esposito; L. Riccardi; P. Sportoletti; R. Di Paola; S. Bruscoli; C. Riccardi; S. Cuzzocrea. BRITISH JOURNAL OF PHARMACOLOGY. 2011;162(5):1186-201..
52. A pathogenetic approach to autoimmune skin disease therapy: psoriasis and biological drugs, unresolved issues, and future directions. E. Ayroldi; A. Bastianelli; L. Cannarile; M.G. Petrillo; D.V. Delfino; A. Fierabracci. CURRENT PHARMACEUTICAL DESIGN. 2011 ;17(29):3176-90..
53. Experimental strategies in autoimmunity: antagonists of cytokines and their receptors, nanocarriers, inhibitors of immunoproteasome, leukocyte migration and protein kinases.. A. Fierabracci; E. Ayroldi. CURRENT PHARMACEUTICAL DESIGN. 2011 ;17(29):3094-107..
54. Manipulating Thymic Apoptosis for future therapy of autoimmune diseases. D.V. Delfino; N. Pozzesi; S. Pierangeli; E. Ayroldi; A. Fierabracci. CURRENT PHARMACEUTICAL DESIGN. 2011 ;17(29):3108-19..
55. Efficacy of very-low-dose betamethasone on neurological symptoms in ataxia-telangiectasia. BROCCOLETTI T; DEL GIUDICE E; CIRILLO E; VIGLIANO I; GIARDINO G; GINOCCHIO VM; BRUSCOLI S; C. RICCARDI; PIGNATA C. EUROPEAN JOURNAL OF NEUROLOGY. 2011 ;18(4):564-70.
56. GITR gene deletion and GITR-FC soluble protein administration inhibit multiple organ failure induced by zymosan.. M. Galuppo; G. Nocentini; E. Mazzon; S. Ronchetti; E. Esposito; L. Riccardi; R. Di Paola; S. Bruscoli; C. Riccardi; S. Cuzzocrea. SHOCK.. 2011; 36(3):263-71.
57. Mitochondrial dysfunction and effect of antiglycolytic bromopyruvic acid in GL15 glioblastoma cells. Macchioni Lara; Migliorati Graziella; Coaccioli Stefano; Roberti Rita; Corazzi Lanfranco; Castigli Emilia. JOURNAL OF BIOENERGETICS AND BIOMEMBRANES. 2011 ;43(5):507-18..
58. Glucocorticoid-Induced TNFR family Related gene (GITR) enhances dendritic cell activity. S. Ronchetti; G. Nocentini; M.G. Petrillo; R. Bianchini; P. Sportoletti; A. Bastianelli; E. Ayroldi; C. Riccardi. IMMUNOLOGY LETTERS. 2011 ;135(1-2):24-33.

59. Effect of dietary saturated fatty acids on HNF-4 $\alpha$  DNA binding activity and ApoCIII mRNA in sedentary rat liver. Ceccarelli V; Nocentini G; Riccardi C; Ayroldi E; Di Nardo P; Roberti R; Binaglia L; Vecchini A. MOLECULAR AND CELLULAR BIOCHEMISTRY. 2011;347(1-2):29-39. .
60. Maesopsin 4-O-D-glucoside, a natural compound isolated from the leaves of *Artocarpus tonkinensis*, inhibits proliferation and up-regulates HMOX1, SRXN1 and BCAS3 in acute myeloid leukemia. Pozzese N.; Pierangeli S.; Vacca C.; Falchi L.; Pettirossi V.; Martelli M.P.; Thuy T.T.; Ninh P.T.; Liberati A.M.; Riccardi C.; Sung T.V.; Delfino D.V.. JOURNAL OF CHEMOTHERAPY. 2011 ;23(3):150-7.