

**FORMATO EUROPEO
PER IL CURRICULUM
VITAE**



INFORMAZIONI PERSONALI

Nome	RESCIGNO MARIA
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Nazionalità	Italiana
Data di nascita	01/02/1968
Codice fiscale	RSC MRA 68B41F 839W

ESPERIENZA LAVORATIVA

- | | |
|---|---|
| • Date (da – a) | 2018- : Prof. Humanitas University
2018- : Group Leader Istituto clinico Humanitas
2016- : CEO Postbiotica srl |
| • Nome e indirizzo del datore di lavoro | 2014-2017 : Prof. Associato Università di Milano
2001-2017 : Direttore Unità di Ricerca Istituto Europeo di Oncologia, Milano
1999-2001 : Ricercatrice Post-dottorato Università degli studi di Milano-Bicocca
1994-1999 : Ricercatrice Borsista in Farmacologia e Tossicologia, nel Dipartimento di Farmacologia Università di Milano
1991-1994 : Ricercatrice Borsista, Department of Biochemistry. University of Cambridge, U.K |
| • Tipo di azienda o settore | Ricerca Scientifica |
| • Tipo di impiego | Professore Ordinario
Direttore di Unità di Ricerca |
| • Principali mansioni e responsabilità | |
| • Esperienze Lavorative precedenti | |

ISTRUZIONE E FORMAZIONE

- | | |
|---|---|
| • Date (da – a) | 1994-1999 |
| • Nome e tipo di istituto di istruzione o formazione | Università di Milano |
| • Principali materie / abilità professionali oggetto dello studio | Farmacologia e Tossicologia (Campo di Ricerca: Immunologia) |
| • Qualifica conseguita | Dottorato di Ricerca |

• Livello nella classificazione nazionale (se pertinente)	PhD
• Date (da – a)	1991-1994
• Nome e tipo di istituto di istruzione o formazione	University of Cambridge
• Principali materie / abilità professionali oggetto dello studio	Ingegneria Proteica
• Qualifica conseguita	Post-Dottorato
• Livello nella classificazione nazionale (se pertinente)	

• Date (da – a)	1986-1990
• Nome e tipo di istituto di istruzione o formazione	Università di Milano
• Principali materie / abilità professionali oggetto dello studio	Biologia e biochimica
• Qualifica conseguita	Laurea
• Livello nella classificazione nazionale (se pertinente)	

MADRELINGUA	ITALIANA
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ALTRE LINGUA	
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• Capacità di lettura	INGLESE eccellente
• Capacità di scrittura	eccellente
• Capacità di espressione orale	eccellente

ALTRE CAPACITÀ E COMPETENZE

Competenze non precedentemente indicate.

Premi e riconoscimenti:

1994 Borsa di studio della FEBS per partecipare al FEBS International Summer School on the "Immune system: genes, receptors and regulation" Greece, september 1994.

1995 Borsa di studio dal Gruppo di Cooperazione in Immunologia (GCI) per partecipare a Immunology World conference in San Francisco (July 1995)

1995-99 Borsa di studio del MURST (Borsa Ministeriale) come dottoranda in Farmacologia e Tossicologia

1996 Premio "Fondazione Adriano Buzzati Traverso"

1996 Borsa di studio dalla Jerusalem Spring School in Life Science per partecipare alla scuola su "Developmental Immunology" a Jerusalem

1998 1998 Premio Roche per la biologia cellulare ricevuto a Viterbo durante il XXVI Convegno Nazionale del Gruppo di cooperazione in Immunologia (GCI).

1998 Progetto "Programma Vigoni 1998" dalla Conferenza dei Rettori per le Università Italiane (CRUI) per una collaborazione con Prof. J. Wehland al Natl Res. Centre for Biotechnology (GBF), Braunschweig.

1999 Premio per le colture cellulari Mascia Brunelli

2000-01 Borsa di studio FIRC per una collaborazione con Prof. R. Steinman alla Rockefeller University NY

2006 Nominated Embo Young Investigator

2007 Member of the Henry-Kunkel society

2011 Eletta membro dell'EMBO

2012: Awarded an ERC Proof-of-concept grant (7TRelmHo)

2013: Awarded an ERC Consolidator grant (HomeoGUT)

2017: Winner of Bioupper with Postbiotica S.r.l.

2017: Winner of Mystart BCN (Barcelona, Spain) with Postbiotica S.r.l.

ALLEGATI

PUBBLICAZIONI

Pubblicazioni:

1. Vanoni M. A., Edmondson D. E., **Rescigno M.**, Zanetti G. and Curti B.: "Mechanistic studies on *Azospirillum brasilense* Glutamate Synthase" (1991) **Biochemistry** 30, 11478-11484.
2. Vanoni M. A., Nuzzi L., **Rescigno M.**, Zanetti G. and Curti B.: "The kinetic mechanism of the reactions catalyzed by the glutamate synthase from *Azospirillum brasilense*" (1991) **Eur. J. Biochem** 202, 181-189.
3. **Rescigno M.** & Perham R. N.: "Structure of the NADPH Binding Motif of Glutathione Reductase: Efficiency Determined by Evolution" (1994) **Biochemistry** 33, 5721-5727.
4. Granucci F., **Rescigno M.**, Marconi G. & P. Ricciardi-Castagnoli: "Ig-specific T cell receptor transgenic T cells are not deleted in the thymus and are functional in vivo: implications for their regulatory role during the immune response", (1996) **J. Exp. Med.**, 183, 203-213.
5. Winzler C., Rovere P., Zimmermann VS., Davoust J., **Rescigno M.**, Citterio S. & Ricciardi-Castagnoli P. Checkpoints and functional stages in DC maturation (1997) **Ad. Exp. Med. & Biol.** 417:59-64
6. Lutz MB., Rovere P., Kleijmeer MJ., Assmann CU., Oorschot VM., **Rescigno M.**, Geuze HJ., Davoust J. & Ricciardi-Castagnoli P A newly identified antigen retention compartment in the FSDC precursor dendritic cell line (1997). **Ad. Exp. Med. & Biol.** 417:167-169.
7. Bachmann M.F., Lutz M.B., Layton G.T., Harris S.J., Fehr T., **Rescigno M.** and Ricciardi-Castagnoli P. Dendritic cells process exogenous viral proteins and virus-like particles for class I presentation to CD8+ cytotoxic T lymphocytes. (1996). **Eur. J. Immunol.** 26:2595-2600.
8. Winzler C., Rovere P., **Rescigno M.**, Granucci F., Penna G., Adorini L., Zimmermann V.S., Davoust J. and Ricciardi-Castagnoli P. Maturation stages of mouse dendritic cells in growth factor-dependent long-term cultures. (1997) **J. Exp. Med.** 185:317-328.
9. **Rescigno M.**, Winzler C., Delia D., Mutini C., Lutz M. and Ricciardi-Castagnoli P. Dendritic cell maturation is required for initiation of the immune response. (1997) **J. Leuk. Biology** 61:415-421.
10. Granucci F., **Rescigno M.**, Corbella P., Longhi R. and Ricciardi-Castagnoli P. Ig-specific T cells regulate the fate of the B cells during the immune response in a TCR transgenic mouse model. (1997) **Ann. N. Y. Acad. Sci.** 815:119-121.
11. Lutz M.B., Rovere P., Kleijmeer M.J., Aßmann C.U., Oorschot V.M.J., **Rescigno M.**, Trucy J., Demandolx D., Geuze H.J., Davoust J. and Ricciardi-Castagnoli P. Intracellular routes and selective retention of antigens in mildly acidic cathepsin D/Lamp-1 positive vesicles in immature dendritic cells. (1997) **J. Immunol.** 159:3707-3716

12. **Rescigno M.**, Citterio S., Théry C., Rittig M., Medaglini D., Pozzi G., Amigorena S. and Ricciardi-Castagnoli P. Bacterial-induced neo-biosynthesis, stabilization and surface expression of functional class I MHC molecules in mouse dendritic cells. (1998) *Proc. Natl Acad. Sci.* 95:5229-5234
13. Théry C., Brachet V., Regnault A., **Rescigno M.**, Ricciardi-Castagnoli P., Bonnerot C. and Amigorena S. MHC class II transport from lysosomal compartments to the cell surface is determined by stable peptide binding, but not by the cytoplasmic domains of the α and β chains. (1998) *J Immunol.* 161:2106-2113.
14. **Rescigno M.**, Martino M., Sutherland C., Gold M.R., Ricciardi-Castagnoli P. Dendritic cell survival and maturation are regulated by different signalling pathways. (1998) *J. Exp. Med.* 188:2175-2180.
15. Rovere P, Vallinoto C, Bondanza A, Crosti MC, **Rescigno M.**, Ricciardi-Castagnoli P, Rugarli C & Manfredi AA, Bystander apoptosis triggers dendritic cell maturation and antigen-presenting function (1998) *J Immunol.*, 161:4467-71.
16. Gasperi C., **Rescigno M.**, Aggujaro D., Granucci F., Foti M., Citterio S., Matyszak M.K., Sciarpi M.T., Lanfranccone L. & Ricciardi-Castagnoli P. Retroviral gene transfer, rapid selection and maintenance of the immature phenotype in mouse dendritic cells (1999) *J. Leukoc. Biol.* 66:263-267
17. **Rescigno M.**, Granucci F., Citterio S., Foti M. & Ricciardi-Castagnoli P. Coordinated events during bacteria-induced DC maturation (1999) *Immunology Today*, 20:200-203.
18. Regnault A., Lankar D., Lacabanne V., Rodriguez A., Thery C., **Rescigno M.**, Saito T., Verbeek S., Bonnerot C., Ricciardi-Castagnoli P. & Amigorena S. Fc γ R-mediated induction of dendritic cell maturation and MHC class I-restricted antigen presentation after immune complex internalization (1999) *J. Exp. Med.*, 189:371-380.
19. **Rescigno M.**, Granucci F. and Ricciardi-Castagnoli P. Dendritic cells at the end of the millenium (1999) *Immunol Cell Biol* 77:404-10.
20. Corinti S, Medaglini D, Cavani A, **Rescigno M.**, Pozzi G, Ricciardi-Castagnoli P, Girolomoni G Human dendritic cells very efficiently present a heterologous antigen expressed on the surface of recombinant gram-positive bacteria to CD4+ T lymphocytes. (1999) *J Immunol* 163:3029-36
21. Matyszak MK, Citterio S, **Rescigno M.**, Ricciardi-Castagnoli P Differential effects of corticosteroids during different stages of dendritic cell maturation. (2000) *Eur J Immunol* 30:1233-1242
22. **Rescigno M.**, Granucci F. and Ricciardi-Castagnoli P. Molecular Events of Bacterial-Induced Maturation of Dendritic Cells (2000) *J. Clinical Immunol.* 20:161-6
23. **Rescigno M.**, Piguët V, Valzasina B, Lens S, Zubler R, French L, Kindler V, Tschopp J and Ricciardi-Castagnoli P. Fas engagement induces the maturation of Dendritic Cells and the release of IL-1 β supporting an inflammatory role for FasL, (2000). *J. Exp. Med.* 4;192:1661-1668.
24. Granucci F, Di Tota FP, Raimondi G, Citterio S, **Rescigno M.**, Ricciardi-Castagnoli P. Autoreactive isotype-specific T cells determine B cell frequency.(2001) *Eur J Immunol* 31:215-224
25. Hofer S, **Rescigno M.**, Granucci F, Francolini M, Citterio S and Ricciardi-Castagnoli P. Differential activation of NF- κ B subunits in dendritic cells in response to Gram negative bacteria and to Lypopolysaccharide (2001). *Microb & Infect.* 3:259-265.
26. **Rescigno M.**, Urbano M., Valzasina B, Francolini M., Bonasio R., Kraehenbuhl JP, Granucci F, Ricciardi-Castagnoli P. Dendritic cells express occludin, establish junctions with gut epithelial cells and sample bacteria preserving epithelial barrier integrity. (2001). *Nat Immunol.* 2:361-367
27. **Rescigno, M.**, B. Valzasina, R. Bonasio, M. Urbano, and P. Ricciardi-Castagnoli. Dendritic cells loaded with recombinant bacteria expressing tumor antigens induce a protective tumor-specific response. (2001). *Clinical Cancer Research.*, 7:865-870
28. Peri F, Cipolla L, **Rescigno M.**, La Ferla B, Nicotra F. Synthesis and Biological Evaluation of an Anticancer Vaccine Containing the C-Glycoside Analogue of the Tn Epitope. (2001) *Bioconjug Chem* 12:325-3288
29. **Rescigno M.** and P. Borrow. The host-pathogen interaction: new themes from dendritic cell biology (2001). *Cell*, 106:267-70.
30. Granucci, F. Vizzardelli, C. Pavelka, N. Feau, S. Persico, M. Virzi, E. **Rescigno, M.** Moro, G. Ricciardi-Castagnoli, P. Inducible IL-2 production by dendritic cells revealed by global gene expression analysis (2001) *Nat Immunol* 2:882-8
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32. Granucci, F., Vizzardelli, C., Virzi, E., **Rescigno, M.**, Ricciardi-Castagnoli, P. Transcriptional reprogramming of dendritic cells by differentiation stimuli (2001) *Eur. J. Immunol.* 31:2539-2546
33. **Rescigno M.**, Rotta G, Valzasina B and Paola Ricciardi-Castagnoli. Dendritic cells shuttle microbes across gut epithelial monolayers.(2001) *Immunobiology.* 204:572-81,
34. Cipolla L, **Rescigno M.**, Leone A, Peri F, La Ferla B, Nicotra F. Novel Tn antigen-containing neoglycopeptides: synthesis and evaluation as anti tumor vaccines. (2002) *Bioorg Med Chem.* 10:1639-46
35. **Rescigno M.**, Urbano M., Rimoldi M., Valzasina B., Rotta G., Granucci F. and Ricciardi-Castagnoli P. Toll-Like Receptor 4 is Not Required for the Full Maturation of Dendritic Cells nor for the Degradation of Gram-Negative Bacteria. (2002) *Eur. J. Immunol.* 32:2800-6
36. **Rescigno M.** Dendritic cells and the complexity of microbial infection. (2002) *Trends in Microbiol.* 10:425-431

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38. **Rescigno M**. Identification of a new mechanism for bacterial uptake at mucosal surfaces, which is mediated by dendritic cells. (2003) *Pathol Biol* 51:69-70. IF: 0,65
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40. Rimoldi M, Chieppa M, Vulcano M, Allavena P and **Rescigno M**. Intestinal epithelial cells control dendritic cells function (2004). *Ann. NY Acad. Sci.* 1029: 1-9 IF: 1.68
41. **Rescigno M**, Testori A, Parmiani G. What is new in melanoma research? Vaccines, Basic and Translational Research in 2003: report of a workshop at the Third Research Meeting on Melanoma, Milan, Italy, May 2003. (2004) *Melanoma Res.* 14:241-3. IF: 1.77
42. B. Kelsall and **Rescigno M**. Mucosal Dendritic Cells in Immunity and Inflammation (2004) *Nature Immunol.* 5:1091-1095 IF: 27.87
43. Avogadri F, Martinoli C, Petrovska L, Chiodoni C, Transidico P, Colombo MP, Dougan G, **Rescigno M** Cancer immunotherapy based on killing of Salmonella-infected tumour cells (2005) *Cancer Res* 65:3920-7.
44. Rimoldi, M., Chieppa, M., Vulcano, M., Allavena, P., **Rescigno, M**. Dendritic cells activated by bacteria or by bacteria-stimulated epithelial cells are functionally different. (2005) *Blood* 106(8):2818-26.
45. Rimoldi, M., Salucci, V., Chieppa, M., Sonzogni, A., Nespoli, A., Viale, G., Allavena, P., **Rescigno, M**. Intestinal immune homeostasis is regulated by the cross-talk between epithelial cells and dendritic cells. (2005) *Nat Immunol.* 6:507-14.
46. Sangaletti, S., Gioiosa, L., Guiducci, C., Rotta, G., **Rescigno, M**, Stoppacciaro, A., Chiodoni C., and Colombo MP Accelerated dendritic cell migration and contact hypersensitivity in absence of matricellular protein SPARC *J Cell Science* In press
47. **Rescigno M**. and Chieppa M. Gut-level decisions in peace and war. (2005) *Nat Medicine* 11:254-5.
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50. Curigliano G, Spitaleri G, Pietri E, **Rescigno M**, de Braud F, Cardillo A, Munzone E, Rocca A, Bonizzi G, Brichard V, Orlando L, Goldhirsch A. Breast cancer vaccines: a clinical reality or fairy tale? (2006) *Ann Oncol.* 17:750-762.
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52. **Rescigno M**. CCR6(+) dendritic cells: the gut tactical-response unit. (2006) *Immunità* 24(5):508-10. Review.
53. Curigliano G, **Rescigno M**, Goldhirsch A. Immunology and breast cancer: (2007) *Therapeutic cancer vaccines. Breast.* 16 Suppl 2:20-6.
54. He B, Xu W, Santini PA, Polydorides AD, Chiu A, Estrella J, Shan M, Chadburn A, Villanacci V, Plebani A, Knowles DM, **Rescigno M**, Cerutti A. Intestinal bacteria trigger T cell-independent immunoglobulin A(2) class switching by inducing epithelial-cell secretion of the cytokine APRIL. (2007) *Immunità* 26(6):812-26.
55. Iliev ID, Matteoli G, **Rescigno M**. The yin and yang of intestinal epithelial cells in controlling dendritic cell function. (2007) *J Exp Med.* 204(10):2253-7.
56. Martinoli C, Chiavelli A, **Rescigno M**. Entry Route of Salmonella typhimurium Directs the Type of Induced Immune Response. (2007) *Immunità* 27(6):975-84.
57. **Rescigno M**, Nieuwenhuis EE. The role of altered microbial signaling via mutant NODs in intestinal inflammation. (2007) *Curr Opin Gastroenterol.* 23(1):21-6. Review.
58. **Rescigno M**, Avogadri F, Curigliano G. Challenges and prospects of immunotherapy as cancer treatment. (2007) *Biochim Biophys Acta.* 1776(1):108-23.
59. BKC **Rescigno M**. Dendritic cell activation and uptake of bacteria in vivo In 'Dendritic cell Interactions with bacteria' (Ed M. Rescigno). Cambridge University Press, 2007
60. BKC **Rescigno M** and Avogadri F. The use of bacteria in the treatment of Melanoma In "Oncogenic Viruses Research Trends" Nova Science Publishers, Inc, 2007
61. Avogadri F, Mittal D, Saccheri F, Sarrafiore M, Ciocca M, Larghi P, Orecchia R, **Rescigno M**. Intra-tumoral Salmonella typhimurium induces a systemic anti-tumor immune response that is directed by low-dose radiation to treat distal disease. (2008) *Eur J Immunol.* 38(7):1937-1947
62. Cerutti A, **Rescigno M**. The biology of intestinal immunoglobulin A responses. (2008) *Immunità* Jun;28(6):740-50.
63. **Rescigno M**, Matteoli G. Lamina propria dendritic cells: For whom the bell TOLLS? (2008) *Eur J Immunol.* 38(6):1483-6.
64. **Rescigno M**. Intestinal epithelial cells control dendritic cell function. (2008) *J Pediatr Gastroenterol Nutr.* 46 Suppl 1:E17-9. Review.
65. **Rescigno M**. The pathogenic role of intestinal flora in IBD and colon cancer. (2008) *Curr Drug Targets.* 9(5):395-403. Review.

66. Rotta G, Matteoli G, Mazzini E, Nuciforo P, Colombo MP, **Rescigno M**. Contrasting roles of SPARC-related granuloma in bacterial containment and in the induction of anti-Salmonella typhimurium immunity. (2008) *J Exp Med*. 205(3):657-67.
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83. Matteoli G, Mazzini E, Iliev ID, Mileti E, Fallarino F, Puccetti P, Chieppa M, Rescigno M. Gut CD103+ dendritic cells express indoleamine 2,3-dioxygenase which influences T regulatory/T effector cell balance and oral tolerance induction. *Gut*. 2010 May;59(5):595-604.
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86. Barbosa T, **Rescigno M**. Host-bacteria interactions in the intestine: homeostasis to chronic inflammation. *Wiley Interdiscip Rev Syst Biol Med*. 2010 Jan-Feb;2(1):80-97.
87. **Rescigno M**. Dendritic cells in tolerance induction for the treatment of autoimmune diseases. *Eur J Immunol*. 2010 Aug;40(8):2119-23.
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Autorizzo al trattamento dei dati personali.

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