

PAOLA ZANOVELLO

PROFESSOR OF IMMUNOLOGY

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DATE & PLACE OF BIRTH: July 2, 1952, Padova, Italy

EDUCATION and TRAINING:

1975 Degree in Biological Sciences at the University of Padova
1975-1980 Post-graduate Fellow, Institute of Oncology, University of Padova

PROFESSIONAL RESEARCH APPOINTMENTS

2010-present Full Professor of Immunology, University of Padova
2003 4-month-Visiting Fellow (American-Italian Cancer Foundation) at NIH, Bethesda, MD
1992-2009 Associate Professor of Immunology, Department of Oncology and Surgical Sciences, University of Padova
1981-1991 Assistant Professor, Institute of Oncology, University of Padova

ACADEMIC AND SCIENTIFIC COMMITMENTS

Director of the PhD Course in Clinical and Experimental Immunology, University of Padova
Chair of the Doctoral Committee of the University of Padova
Member of the Didactic Committee of the University of Padova
Member of the Scientific Committee of Italian Association for Cancer Research (AIRC)

MEMBERSHIP OF SCIENTIFIC SOCIETIES

Italian Society of Immunology, Clinical Immunology and Allergology
European Federation of Immunology Societies
Italian Society of Cancer
Italian Network of Cancer Biotherapy
American Association of Immunologists
Organization of PhD education in Biomedicine and Health Sciences in the European System.

REFEREE FOR

Journal of Immunology
European Journal of Immunology
Immunology Letters
Cancer Research
Clinical Immunology and Immunopathology
Blood
International Journal of Cancer

RESEARCH ACTIVITY

Tumor Immunology with a special attention to immune responses mediated by tumor-specific cytotoxic T lymphocytes, and mechanisms underlying their activation and effector function. More recently, the relationships between tumor and microenvironment, and new treatments able to interfere with immunosuppressive mechanisms have been also addressed.

SCIENTIFIC PUBLICATIONS: 136 published in peer-reviewed journals.

OTHER ACTIVITIES

Research training and supervision of undergraduate students
Supervisor for PhD students and External examiner for PhD theses

SELECTED PUBLICATIONS (2014-2018)

1. Grassi, Angela, Perilli, Lisa, Albertoni, Laura, Tessarollo, Sofia, Mescoli, Claudia, Urso, Emanuele D. L., Fassan, Matteo, Rugge, Massimo, Zanovello, Paola (2018). A coordinate deregulation of microRNAs expressed in mucosa adjacent to tumor predicts relapse after resection in localized colon cancer. *MOLECULAR CANCER*, vol. 17, ISSN: 1476-4598, doi: 10.1186/s12943-018-0770-8
2. Piovan, Erich, Tosello, Valeria, Amadori, Alberto, Zanovello, Paola (2018). Chemotactic Cues for NOTCH1-Dependent Leukemia. *FRONTIERS IN IMMUNOLOGY*, vol. 9, ISSN: 1664-3224, doi: 10.3389/fimmu.2018.00633
3. Turrini Riccardo, Merlo Anna, Martorelli Debora, Faè Damiana Antonia, Sommaggio Roberta, Montagner Isabella Monia, Barbieri Vito, Marin Oriano, Zanovello Paola, Dolcetti Riccardo, Rosato Antonio (2017). A BARF1-specific mAb as a new immunotherapeutic tool for the management of EBV-related tumors. *ONCOIMMUNOLOGY*, vol. 6, e1304338, ISSN: 2162-4011, doi: 10.1080/2162402X.2017.1304338
4. Tosi Anna, Dalla Santa Silvia, Cappuzzello Elisa, Marotta Carolina, Walerich Dawid, Del Sal Giannino, Zanovello Paola, Sommaggio Roberta, Rosato Antonio (2017). Identification of a HLA-A*0201-restricted immunogenic epitope from the universal tumor antigen DEPDC1. *ONCOIMMUNOLOGY*, vol. 6, ISSN: 2162-4011, doi: 10.1080/2162402X.2017.1313371
5. Bordin, Fulvio, Piovan, Erich, Masiero, Elena, Ambesi-Impiombato, Alberto, Minuzzo, Sonia, Bertorelle, Roberta, Sacchetto, Valeria, Pilotto, Giorgia, Basso, Giuseppe, Zanovello, Paola, Amadori, Alberto, Tosello, Valeria (2017). WT1 loss attenuates the TP53-induced DNA damage response in T-cell acute lymphoblastic leukemia. *HAEMATOLOGICA*, ISSN: 0390-6078, doi: 10.3324/haematol.2017.170431
6. Cappuzzello Elisa, Tosi Anna, Zanovello Paola, Sommaggio Roberta, Rosato Antonio (2016). Retargeting cytokine-induced killer cell activity by CD16 engagement with clinical-grade antibodies. *ONCOIMMUNOLOGY*, vol. 5, e1199311, ISSN: 2162-4011, doi: 10.1080/2162402X.2016.1199311
7. Marigo Ilaria, Zilio Serena, Desantis Giacomo, Mlecnik Bernhard, Agnellini Andrielly, Ugel Stefano, Sasso Maria Stella, Qualls Joseph E, Kratochvill Franz, Zanovello Paola, Molon Barbara, Ries Carola, Runza Valeria, Hoves Sabine, Bilocq Amélie, Bindea Gabriela, Mazza Emilia M. C, Biccato Silvio, Galon Jérôme, Murray Peter J, Bronte Vincenzo (2016). T Cell Cancer Therapy Requires CD40-CD40L Activation of Tumor Necrosis Factor and Inducible Nitric-Oxide-Synthase-Producing Dendritic Cells. *CANCER CELL*, vol. 30, p. 377-390-377, ISSN: 1535-6108, doi: 10.1016/j.ccell.2016.08.004
8. Bisognin A, Pizzini S, Perilli L, Esposito G, Mocellin S, Nitti D, Zanovello P, Bortoluzzi S, Mandruzzato S. (2014). An integrative framework identifies alternative splicing events in colorectal cancer development. *MOLECULAR ONCOLOGY*, vol. 8, p. 129-141, ISSN: 1574-7891, doi: 10.1016/j.molonc.2013.10.004
9. Perilli, Lisa, Vicentini, Caterina, Agostini, Marco, Pizzini, Silvia, Pizzi, Marco, D'Angelo, Edoardo, Bortoluzzi, Stefania, Mandruzzato, Susanna, Mammano, Enzo, Rugge, Massimo, Nitti, Donato, Scarpa, Aldo, Fassan, Matteo, Zanovello, Paola (2014). Circulating miR-182 is a biomarker of colorectal adenocarcinoma progression. *ONCOTARGET*, vol. 5, p. 6611-6619, ISSN: 1949-2553, doi: 10.18632/oncotarget.2245
10. Dalla Santa S, Merlo A, Bobisse S, Ronconi E, Boldrin D, Milan G, Barbieri Vito, Marin Oriano, Facchinetti Antonella, Biasi G, Dolcetti R, Zanovello Paola, Rosato Antonio (2014). Functional avidity-driven activation-induced cell death shapes CTL immunodominance.. *JOURNAL OF IMMUNOLOGY*, vol. 193, p. 4704-4711, ISSN: 0022-1767, doi: 10.4049/jimmunol.1303203

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Selected Publications

1. Chieco-Bianchi, L., Collavo, D., **Zanovello, P.**, Biasi, G., Colombatti, A., De Rossi, A.: Host's immune response to M-MSV induced tumors: lack of tumor regression associated with T lymphocyte tolerance. In: *Current Trends in Tumor Immunology*. p. 93-101, 1979
2. Collavo, D., Biasi, G., **Zanovello, P.**, Chieco-Bianchi, L., Colombatti, A.: Role of the H-2 complex in the T-cell mediated cytotoxicity to Moloney murine sarcoma virus (M-MSV)-induced tumors. In: *Current Trend in Tumor Immunology*, p.309-322 1979
3. Biasi, G., Collavo, D., **Zanovello, P.**, Chieco-Bianchi, L.: Lack of T-cell mediated cytotoxicity in M-MSV system depending on H-2 haplotypes. *J Immunogenetics* 6, 341-351, 1979
4. Collavo, D., **Zanovello, P.**, Leuchars, E., Davies, A., Chieco-Bianchi, L., Biasi, G.: Moloney murine sarcoma virus (M-MSV) oncogenesis in T lymphocyte deprived mice. *Biological and immunological studies*. *J Natl Cancer Inst*, 64, 97-104, 1980
5. Chieco-Bianchi, L., Collavo, D., **Zanovello, P.**, De Rossi, A.: M-MSV tumor progression due to T lymphocyte tolerance. In: *Advances in Comparative Leukemia Research 1979*. D.S. Yohn, B.A. Lapin, J.R. Blakeslee (Eds.), Elsevier/North-Holland, New York/Amsterdam/Oxford, p. 315-316, 1980
6. Collavo, D., **Zanovello, P.**, Biasi, G., Chieco-Bianchi, L.: Progressing Moloney sarcoma virus (M-MSV) induced tumors: effect of host's immunomanipulation. *Cell Mol Biol*, 26, 155-158, 1980
7. Chieco-Bianchi, L., Collavo, D., **Zanovello, P.**, De Rossi, A.: Lack of M-MuSV tumour regression associated with T lymphocyte tolerance. *Nature*, 285, 667-668, 1980
8. Collavo, D., **Zanovello, P.**, Biasi, G., Chieco-Bianchi, L.: T-Lymphocyte tolerance and early appearance of virus-induced cell surface antigens in Moloney-murine leukemia virus neonatally injected mice. *J Immunol*, 126, 187-193, 1981
9. Biasi, G., Collavo, D., **Zanovello, P.**, Chieco-Bianchi, L.: Leukemic-cell rejection due to T-region encoded antigens. *Immunogenetics*, 12, 433-443, 1981
10. Collavo, D., Ronchese, F., **Zanovello, P.**, Biasi, G.: M-MSV tumor progression in T lymphocyte tolerant mice is not mediated by suppressor T cells. In: *Hemolymphopoiesis: Normal and Pathological Cell Differentiation*. F. Gavosto, G.P. Bagnara, M.A. Brunelli, C. Castaldini (Eds.), Esculapio, Bologna, p. 85-88, 1981
11. Collavo, D., **Zanovello, P.**, Ronchese, F., Biasi, G.: T cell tolerance and tumor progression induced by the neonatal injection of Moloney murine leukemia virus. In: *Advances in Comparative Leukemia Research*. D.S. Yohn, F.R. Blakeslee (Eds.), Ohio, USA, p. 237-238, 1981
12. Collavo, D., Ronchese, F., **Zanovello, P.**, Biasi, G., Chieco-Bianchi, L.: T cell tolerance in Moloney-murine leukemia virus (M-MuLV) carrier mice: Low cytotoxic T lymphocyte precursor frequency and absence of suppressor T cell in carrier mice with Moloney-murine sarcoma (M-MSV) - induced tumors. *J Immunol*, 128, 774-779, 1982
13. **Zanovello, P.**, Collavo, D., Ronchese, F., De Rossi, A., Biasi, G., Chieco-Bianchi, L.: Virus-specific T cell response prevents lymphoma development in mice infected by intrathymic inoculation of Moloney leukemia virus (M-MuLV). *Immunology*, 51, 9-16, 1984 i.f.: 3.276
14. Ronchese, F., D'Andrea, E., Collavo, D., De Rossi, A., **Zanovello, P.**, Chieco-Bianchi, L.: Tolerance to viral antigens in Mov-13 mice carrying endogenized Moloney-murine leukemia virus. *Cell Immunol*, 83, 379-388, 1984
15. Collavo, D., Ronchese, F., **Zanovello, P.**, Cerundolo, V., Biasi, G.: Reduction in precursors of cytotoxic T lymphocytes and of cells with natural killer-like activity in spleens of cyclophosphamide-treated mice. *Int J Immunopharm*, 6, 529-534, 1984

16. Ronchese, F., Collavo, D., **Zanovello, P.**, Cerundolo, V., Biasi, G.: Reversibility of lymphokine-induced NK-like activity in virus-specific cytotoxic T-lymphocyte clones. *Immunology*, 54, 265-274, 1985
17. Cerundolo, V., **Zanovello, P.**, McIntosh, D., Fabbris, R., Davies, A.J.S., Collavo, D.: Temporary inhibition of Moloney-murine sarcoma virus (M-MSV) induced tumors by the adoptive transfer of ricin-treated T lymphocytes. *Brit J Cancer*, 55, 413-419, 1987
18. Cerundolo, V., Lahaye, T., Horvath, C., **Zanovello, P.**, Collavo, D., Engers, H.D.: Functional activity in vivo of effector T cell populations. III. Protection against M-MSV-induced tumors in T-cell deficient mice by the adoptive transfer of a M-MSV-specific CTL clone. *Eur J Immunol*, 17, 173-178, 1987
19. Treves, S., Di Virgilio, F., Cerundolo, V., **Zanovello, P.**, Collavo, D., Pozzan, T.: Calcium and inositolphosphates in the activation of T cell-mediated cytotoxicity. *J Exp Med*, 166, 33-42, 1987
20. Amadori, A., Faulkner Valle, G., De Rossi, A., **Zanovello, P.**, Collavo, D., Chieco-Bianchi, L.: HIV-mediated immunodepression: In vitro inhibition of T-lymphocyte proliferative response by UV-inactivated virus. *Clin Immunol Immunopathol*, 46, 37-54, 1988
21. Amadori, A., **Zanovello, P.**, Cozzi, E., Ciminale, V., Borghesan, F., Fagiolo, U., Crepaldi, G.: Study of some early immunological parameters in aging humans. *Gerontology*, 34, 277-283, 1988
22. **Zanovello, P.**, Vallerani, E., Biasi, G., Landolfo, S., Collavo, D.: Monoclonal antibody against gamma interferon inhibits Moloney-murine sarcoma virus-specific cytotoxic T-lymphocyte differentiation. *J Immunol*, 140, 1341-1344, 1988
23. **Zanovello, P.**, Cerundolo, V., Bronte, V., Giunta, M., Panozzo, M., Biasi, G., Collavo, D.: Resistance of Lymphokine-Activated T Lymphocytes to Cell-Mediated Cytotoxicity. *Cell Immunol*, 122, 450-460, 1989 i.f.: 2.698
24. **Zanovello, P.**, Rosato, A., Bronte, V., Cerundolo, V., Treves, S., Di Virgilio, F., Pozzan, T., Biasi, G., and Collavo, D.: Interaction of Lymphokine activated killer cells with susceptible targets does not induce second messenger generation and cytolytic granule exocytosis. *J Exp Med*, 170, 665-677, 1989
25. Biasi, G., Mazzocchi, M., **Zanovello, P.**, Collavo, D., Festenstein, H.: In vitro induction of immunological tolerance. *Cell Immunol*, 124, 187-201, 1989
26. Di Virgilio, F., Bronte, V., Collavo, D., and **Zanovello, P.**: Responses of mouse lymphocytes to extracellular adenosine 5'-triphosphate (ATP). Lymphocytes with cytotoxic activity are resistant to the permeabilizing effects of ATP. *J Immunol*, 143, 1955-1960, 1989
27. Di Virgilio, F., Picello, E, Bronte, V., Collavo, D., **Zanovello, P.**: Extracellular ATP causes changes in plasma membrane permeability of mouse lymphocytes. *Ann NY Acad Sci*, 1989
28. Biasi, G., Mazzocchi, M., Facchinetti, A., Panozzo, M., **Zanovello, P.**, Collavo, D., Chieco-Bianchi, L.: Induction of Moloney Murine Sarcoma Virus tolerance in adult mice by anti-CD4 monoclonal antibody treatment. *Cancer Res*, 50, 5703-5706, 1990
29. **Zanovello, P.**, Bronte, V., Rosato, A., Pizzo, P., Di Virgilio, F.: Responses of mouse lymphocytes to extracellular ATP. II. Extracellular ATP causes cell type-dependent lysis and DNA fragmentation. *J Immunol*, 145, 1545-1550, 1990
30. **Zanovello, P.**, Vallerani, E., Bronte, V., Rosato, A., Collavo, D., Chieco-Bianchi, L.: Tolerance induction and leukemia development in M-MuLV intrathymically injected adult mice treated with cyclophosphamide. *Arch Geschwulstforsch*, 60, 423-428, 1990
31. **Zanovello, P.**, Vallerani, E., Bronte, V., Rosato, A., Chieco-Bianchi, L., Collavo, D.: Tolerance induction in adult mice intrathymically injected with Moloney murine leukemia virus and treated with cyclophosphamide. *J Immunol Res*, 2, 151-156, 1990
32. Di Virgilio, F., Pizzo, P., **Zanovello, P.**, Bronte, V., Collavo, D.: Extracellular ATP as a possible mediator of cytotoxicity. *Immunol Today*, 11, 274-277, 1990

33. **Zanovello, P.**, Collavo, D.: Molecular mechanisms of lymphocyte-induced lysis. *J Immunol Res*, 3, 97-100, 1991
34. Biasi, G., Facchinetti, A., Panozzo, M., **Zanovello, P.**, Chieco-Bianchi, L., Collavo, D: M-MuLV tolerance in anti-CD4 mAb treated adult mice. *J Immunol*, 147, 2284-2289, 1991
35. Pizzo, P., **Zanovello, P.**, Bronte, V., Di Virgilio, F.: Extracellular ATP causes lysis of mouse thymocytes and activates a plasma membrane ion channel. *Biochem J*, 274, 139-144, 1991
36. Pizzo, P., Murgia, M., **Zanovello, P.**, Di Virgilio, F.: Extracellular ATP as a cytotoxic factor. *Eur J Cell Biol*, 35, 54, 1991
37. Pollis, F., Rosato, A., Bronte, V., Mandruzzato, S., Zambon, A., Zambello, R., Pizzo, P., **Zanovello, P.**: Interaction of large granular lymphocytes with susceptible target does not induce second messenger generation and cytolytic granule exocytosis. *Leukemia*, 6, 92-101, 1992
38. Rosato, A., Bronte, V., Pollis, F., Mandruzzato, S., Zambon, A., **Zanovello, P.**, Collavo, D.: The in vivo role of leukocyte function-associated antigen-1 (LFA-1) in cytotoxic cell activity against tumors induced by the retroviral complex M-MSV/M-MuLV. *Leukemia*, 6, 166-168, 1992
39. Murgia, M., Pizzo, P., **Zanovello, P.**, Zambon, A., Di Virgilio, F.: In vitro cytotoxic effect of extracellular ATP. *Altern Lab Anim*, 20, 66-70, 1992
40. Pollis, F., Bronte, V., Mandruzzato, S., Rosato, A., Zambon, A., **Zanovello, P.**, Zambello, R., Callegaro, L., Collavo, D.: Inhibition of CTL-line lysis after gangliosides treatment. *Pharmacol Res*, 26, 98-99, 1992
41. Mandruzzato, S., Rosato, A., Bronte, V., Pollis, F., Zambon, A., **Zanovello, P.**, Collavo, D.: Therapeutical effect of 4'-deoxy-4'-iododoxorubicin-loaded LAK cells in mice bearing lung metastases. *Pharmacol Res*, 26, 124-125, 1992
42. Pizzo, P., Murgia, M., Zambon, A., **Zanovello, P.**, Bronte, V., Pietrobon, D., Di Virgilio, F.: Role of P2z purinergic receptors in ATP-mediated killing of TNF-sensitive and TNF-resistant L929 fibroblasts. *J Immunol*, 149, 3372-3378, 1992
43. Rosato, A., Bronte, V., Mandruzzato, S., Zambon, A., Calderazzo, F., Biasi, G., **Zanovello, P.**, Collavo, D.: Role of adhesion molecules in the immune reaction to M-MSV-induced tumors. *Int J Cancer*, 7, 24-27, 1992
44. Di Virgilio, F., **Zanovello, P.**, Collavo, D.: Cell permeabilizing properties of extracellular ATP in relation to lymphocyte-mediated cytotoxicity. In: *Cytotoxic Cells*. M. Sitkovsky and P. Henkart (Eds.), 29, pp 314-320, 1992
45. Murgia, M., Pizzo, P., Sandona', D., **Zanovello, P.**, Rizzuto, R., Di Virgilio, F.: Mitochondrial DNA is not fragmented during apoptosis. *J Biol Chem*, 267, 10939-10941, 1992
46. **Zanovello, P.**, Rosato, A., Bronte, V., Mandruzzato, S., Cerundolo, V., Collavo, D.: Anti-tumor efficacy of lymphokine-activated killer cells loaded with ricin against experimentally-induced lung metastases. *Cancer Immunol Immunother*, 35, 27-32, 1992
47. Bronte, V., Rosato, A., Zambon A., Mandruzzato, S., **Zanovello, P.**, Collavo, D.: Role of tyrosine Kinases and phosphatases in programmed cell death. *J Cell Biol*, 17, 308, 1993
48. Bronte, V., **Zanovello, P.**, Rosato, A., Mandruzzato, S., Pizzo, P., Zambon, A., Di Virgilio, F., Collavo, D.: Synergistic effect of extracellular ATP and tumor necrosis factor on DNA degradation. *Cell Immunol*, 152, 110-119, 1993
49. Zambon, A., Bronte, V., Di Virgilio, F., Hanau, S., Steinberg, T.H., Collavo, D., **Zanovello, P.**: Role of Extracellular ATP in Cell-Mediated Cytotoxicity: A study with ATP-sensitive and ATP-resistant macrophages. *Cell Immunol*, 156, 458-467 1994
50. Mandruzzato, S., Rosato, A., Bronte, V., **Zanovello, P.**, Amboldi, N., Ballinari, D., Collavo, D.: Adoptive transfer of lymphokine-activated killer cells loaded with 4'-deoxy-4'-iododoxorubicin: therapeutic effect in mice bearing lung metastases. *Cancer Res*, 54, 1016-1020, 1994
51. Rosato, A., Zambon A., Mandruzzato, S., Bronte, V., Macino, B., Calderazzo, F., Collavo, D., **Zanovello, P.**: Inhibition of protein tyrosine phosphorylation prevents T-cell-mediated cytotoxicity. *Cell Immunol*, 159, 294-305, 1994

52. Rosato, A., Mandruzzato, S., Bronte, V., Zambon, A., Macino, B., Calderazzo, F., **Zanovello, P.**, Collavo, D.: Role of anti-LFA-1 and anti-ICAM-1 combined mAb treatment in the rejection of tumors induced by Moloney murine sarcoma virus (M-MSV), *Int J Cancer*, 61, 355-362, 1995
53. Di Virgilio, F., Ferrari, D., Munerati, M., Falzoni, Villalba, M., Bronte, V., Zambon, A., **Zanovello, P.**, and Steinberg, T.H.: The P2Z receptor and its regulation of macrophage function. In: A. Pelleg (eds.), *Adenosine and Adenine Nucleotides*, Kluwer press, 329-335, 1995
54. Di Virgilio, F., **Zanovello, P.**, Zambon, A., Bronte, V., Pizzo, P., Murgia, M.: Cell membrane receptors for extracellular ATP: a new family of apoptosis-signalling molecules. *Fund Clin Immunol*, 3, 80-81, 1995
55. Rosato, A., Zambon, A., Macino, B., Mandruzzato, S., Bronte, V., Milan, G., **Zanovello, P.**, Collavo, D.: Anti-L-selectin monoclonal antibody treatment in mice enhances tumor growth by preventing CTL sensitization in peripheral lymph nodes draining tumor area. *Int J Cancer*, vol 65, 847-851, 1996
56. Bronte, V., Macino, B., Zambon, A., Rosato, A., Mandruzzato, S., **Zanovello, P.**, Collavo, D.: Protein tyrosine kinases and phosphatases control apoptosis induced by extracellular adenosine 5'-triphosphate. *Biochem Bioph Res Co*, 218, 344-351, 1996
57. Monastra, G., Cabrelle, A., Zambon, A., Rosato, A., Macino, B., Collavo, D., **Zanovello, P.**: Membrane form of TNF alfa induces both cell lysis and apoptosis in susceptible target cells. *Cell Immunol*, 171, 102-110, 1996
58. Macino, B., Zambon, A., Milan, G., Cabrelle, A., Ruzzene, M., Rosato, A., Mandruzzato, S., Quintieri, L., **Zanovello, P.**, Collavo, D.: CD45 regulates apoptosis induced by extracellular adenosine triphosphate and cytotoxic T lymphocytes. *Biochem Bioph Res Co*, 226, 769-776, 1996
59. Rosato, A., Zambon, A., Milan, G., Ciminale, V., D'Agostino, D.M., Macino, B., **Zanovello, P.**, Collavo, D.: CTL response and protection against P815 tumor challenge in mice immunized with DNA expressing the tumor-specific antigen P815A. *Hum Gene Ther*, 8, 1451-1458, 1997
60. Vizler, C., Rosato, A., Calderazzo, F., Quintieri, L., Fruscella, P., Wainstock de Calmanovici, R., Mantovani, A., Vecchi, A., **Zanovello, P.**, Collavo, D.: Therapeutic effect of interleukin 12 on mouse haemangiosarcomas is not associated with an increased anti-tumor cytotoxic T-lymphocyte activity. *Brit J Cancer*, 77, 656-662, 1998
61. Milan, G., Rosato, A., Zambon, A., **Zanovello, P.**, Collavo, D.: DNA immunization in mice against virus-induced tumor antigens. *Adv Exp Med Biol*, 451, 311-314, 1998
62. Milan, G., Zambon, A., Cavinato, M., **Zanovello, P.**, Rosato, A., Collavo, D.: Dissecting the immune response to Moloney-Murine sarcoma/leukemia virus-induced tumors by means of a DNA vaccination approach. *J Virol*, 73, 2280-2287, 1999
63. Quintieri, L., Rosato, A., Amboldi, N., Vizler, C., Ballinari, D., **Zanovello, P.**, Collavo, D.: Delivery of methoxymorpholinyl doxorubicin by IL-2 activated NK cells: effect in mice bearing hepatic metastases. *Brit J Cancer*, 79, 1067-1073, 1999
64. Rosato, A., Milan, G., Zambon, A., **Zanovello, P.**, Collavo, D.: CTL analysis for tumor vaccines. In: *Methods in molecular medicine. DNA vaccines: methods and protocols*. D.B. Lowrie, R.W. Humana (Ed.), pp. 187-190, 1999
65. Rosato, A., Milan, G., Collavo, D., **Zanovello, P.**: DNA-based vaccination against tumors expressing the P1A antigen. *Methods*, 19, 187-190, 1999 i.f.: 3.763
66. Bronte, V., Apolloni, E., Ronca, R., Zamboni, P., Overwijk, W.W., Surman, D.R., Restifo, N.P., **Zanovello, P.**: Genetic vaccination with "Self" tyrosinase-related protein 2 causes melanoma eradication but not vitiligo. *Cancer Res*, 60, 253-258, 2000
67. Bronte, V., Apolloni, E., Cabrelle, A., Ronca, R., Serafini, P., Zamboni, A., Restifo, N.P., **Zanovello, P.**: Identification of a CD11b+/Gr-1+/CD31+ myeloid progenitor capable of activating or suppressing CD8+T cells. *Blood*, 96, 3838-3846, 2000

68. Apolloni, E., Bronte, V., Mazzoni, A., Serafini, P., Cabrelle, A., Segal, D.M., Young, H.A., **Zanovello, P.**: Immortalized myeloid suppressor cells trigger apoptosis in antigen-activated T lymphocytes. *J Immunol*, 165, 6723-6730, 2000
69. Rosato, A., Milan, G., Zambon, A., **Zanovello, P.**, Collavo, D.: CTL analysis for tumor vaccines. In: *DNA vaccines: methods and protocols*. Humana Press, pp. 123-132, 2000
70. Quintieri, L., Rosato, A., Napoli, E., Sola, F., Geroni, C., Floreani, M., **Zanovello, P.**: In vivo antitumor activity and host toxicity of methoxymorpholinyl doxorubicin: role of cytochrome P450 3A. *Cancer Res*, 60, 3232-3238, 2000
71. Zambon, A., Mandruzzato, S., Parenti, A., Macino, B., Dalerba, P., Ruol, A., Merigliano, S., Zaninotto, G., **Zanovello, P.**: MAGE, BAGE and GAGE gene expression in esophageal squamous cell carcinoma and adenocarcinoma of the gastric cardia. *Cancer*, 91, 1882-1888, 2001
72. Bronte, V., Serafini, P., Apolloni, P., **Zanovello, P.**: Tumor-induced immune dysfunctions caused by myeloid suppressor cells. *J Immunother*, 24, 431-446, 2001
73. Dalerba, P., Frascella, E., Macino, B., Mandruzzato, S., Zambon, A., Rosolen, A., Carli, M., Ninfo, V., **Zanovello, P.**: Mage, Bage and Gage gene expression in human rhabdomyosarcomas. *Int J Cancer*, 93, 85-90, 2001
74. Mandruzzato, S., Rossi, E., Bernardi, F., Tosello, V., Macino, B., Basso, G., Chiarion-Sileni, V., Rossi, C.R., Montesco, C., **Zanovello, P.**: Large and dissimilar repertoire of melan-A/MART-1-specific CTL in metastatic lesions of a melanoma patient. *J Immunol*, 169, 4017-4024, 2002
75. Mazzoni, A., Bronte, V., Visintin, A., Spitzer, J.H., Apolloni, E., Serafini, P., **Zanovello, P.**, Segal, D.M.: Myeloid suppressor lines inhibit T cell responses by an NO-dependent mechanism. *J Immunol*, 168, 689-695, 2002
76. Rosato, A., Dalla Santa, S., Zoso, A., Giacomelli, S., Milan, G., Macino, B., Tosello, V., Dellabona, P., Lollini, P., L., De Giovanni, C., **Zanovello P.**: The cytotoxic T-lymphocyte response against a poorly immunogenetic mammary adenocarcinoma is focused on a single immunodominant class I epitope derived from the gp70 env product of an endogenous retrovirus. *Cancer Res*, 63, 2158-2163, 2003
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