

## **CURRICULUM VITAE PROF. GRAZIA GRAZIANI**

### ***BIOGRAPHICAL AND PERSONAL INFORMATION***

Place of birth Piacenza, Italy

e-mail address: [graziani@uniroma2.it](mailto:graziani@uniroma2.it)

Married; two daughters and one son

### ***EDUCATION***

**1982:** Graduated in Medicine (Magna cum Laude) at the University of Perugia, Italy

**1986:** Specialist in Oncology (Magna cum Laude) at the University of Rome Tor Vergata, Italy

### ***POSITION HELD AND SCIENTIFIC CAREER:***

**May 2021-present:** Coordinator of the University Evaluation Unit at the University of Rome Tor Vergata

**February 2018-present:** Full Professor of Pharmacology at the Department of Systems Medicine, School of Medicine of the University of Rome Tor Vergata

**2015-May 2019:** Component of the Italian National University Council

**2014:** National Scientific Qualification as Full professor of Pharmacology

**2001-February 2018:** Associate Professor of Pharmacology at the Department of Systems Medicine, School of Medicine of the University of Rome Tor Vergata

**1984-2000:** Research Associate at the Department of Neuroscience University of Rome Tor Vergata

**1986-1990:** Visiting Fogarty Fellow at the laboratory of Cellular and Molecular Biology, National Cancer Institute, National Institutes of Health, Bethesda, Maryland, U.S.A.

**1983:** Guest Scientist at the laboratory of Tumor Cell Biology, National Cancer Institute, National Institutes of Health, Bethesda, Maryland, U.S.A.

### ***BIBLIOMETRIC INDEXES***

Co-author of 174 full papers in peer-reviewed and Medline-based journals, of which 106 as first or last author/corresponding author, 11 book chapters and more than 120 abstracts of national and international conferences.

H-index 43 (Scopus Author ID: 35268329000). Average Impact Factor of the scientific production: 7.

### ***MAIN COMPETITIVE RESEARCH GRANTS OF WHICH SHE IS THE PRINCIPAL INVESTIGATOR OF THE PROJECT OR PRINCIPAL INVESTIGATOR OF RESEARCH UNIT IN THE LAST 20 YEARS:***

She has been Principal Investigator (PI) or Principal Investigator of Research Unit (RU-PI) of a number of projects funded by the Italian Association for Cancer Research - AIRC, LazioInnova, Banca d'Italia, Ministry of Education, University and Research (PRIN and FIRB projects), Ministry of Health, National Health Institute, University of Rome Tor Vergata, FILAS – Regione Lazio, “Compagnia di San Paolo”, pharmaceutical companies.

### ***PATENTS***

**2007** Graziani G, Vergati M. Immortalized endothelial cells EP1828377.

**2016-17** Graziani G, Lacal PM; D'Atri S; Tentori L; Ruffini F; Failla C. Anticorpi anti-VEGFR-1 e usi di essi. IT 102016000034933; Anti-VEGFR-1 antibodies and their uses PCT/IB2017/000379.

### ***MEMBER OF PhD SCHOOLS***

**2018-present** Member of the Doctorate School of Tissue Engineering and Remodeling Biotechnologies for Body Function (courses from XXXIV cycle-present), University of Rome Tor Vergata.

### ***SCIENTIFIC SOCIETIES***

Member of the Italian Society of Pharmacology

### ***MAIN RESEARCH INTERESTS***

Using in “in vitro” and “in vivo” preclinical models of solid tumor (melanoma, glioblastoma, colorectal, urothelial and breast cancer) and leukemias, the research activity mainly focused on these topics:

-mechanisms of action of anticancer agents;

-immunopharmacology;

-pharmacological modulation of tumor cell resistance through the use of DNA repair inhibitors;  
-anti-angiogenic agents.

In particular, the main findings were as follows:

- a) identification of the action and resistance mechanisms of alkylating agents, including temozolomide, a methylating agent approved for the treatment of glioblastoma;
- b) identification of the therapeutic potential of poly (ADP-ribose) polymerase (PARP) inhibitors to increase the antitumor activity of methylating agents and topoisomerase I inhibitors;
- c) demonstration, using in vivo preclinical models, that the antitumor activity of temozolomide can be boosted at the central nervous system level by means of PARP inhibitors towards glioblastoma, brain metastases of melanoma or cerebral lymphoma;
- d) demonstration that the telomerase enzyme, expressed at high levels in the tumor, can be used as a biomarker to evaluate the in vitro chemosensitivity of tumors or as a therapeutic target to increase the chemosensitivity of tumors;
- e) demonstration that PARP inhibitors, when used as single agents, may exert anti-angiogenic activity and cytotoxic effects in solid tumors and leukemia models;
- f) generation of a murine monoclonal antibody (D16F7) directed against the human type 1 receptor (VEGFR-1) of the vascular endothelial growth factor-A (VEGF-A) and demonstration of its antitumor and antiangiogenic effects in melanoma and glioblastoma in vivo models.
- g) demonstration that VEGFR-1 up-regulation in melanoma may contribute to melanoma resistance to BRAF inhibitors;
- h) demonstration that the anti-VEGFR-1 D16F7 mAb enhances the antitumor activity of immune checkpoint inhibitors in a preclinical in vivo model of melanoma.

#### ***REFEREE FOR THE FOLLOWING INTERNATIONAL SCIENTIFIC JOURNALS***

Oncogene, International Journal of Cancer, Clinical Cancer Research, Pharmacological Research, British Journal of Cancer, European Journal of Cancer, British Journal of Pharmacology, Biochemical Pharmacology, American Journal of Pathology, The FASEB Journal, Future Medicinal Chemistry.

#### ***PARTICIPATION TO EDITORIAL BOARD OR GUEST-EDITOR SPECIAL ISSUE OF SCIENTIFIC JOURNALS***

**2015-pres.:** Associate Editor of Chemotherapy (Anticancer Agents Section) (Karger).

**2005:** Guest-Editor pharmacological approach of DNA damage and repair: the PARP (poly ADP ribose polymerase) pathway PARP Volume 52, Issue 1 of Pharmacological Research.

#### **TEACHING**

**2015-present:** Course of Pharmacology, School of Medicine at the University of Rome Tor Vergata (English Course).

**2011-present:** Course of Chemotherapy, School of Pharmacy, University of Rome Tor Vergata (English course).

**2009-2015:** Course of Pharmaceutical Biology, School of Pharmacy, University of Rome Tor Vergata (English course).

**2007-2021:** Course of Pharmacology, School of Dentistry, University of "Nostra Signora del Buon Consiglio", Tirana, Albany.

**2006-2021:** Course of Pharmacology, School of Medicine, University of "Nostra Signora del Buon Consiglio", Tirana, Albany.

**2006-present:** Course of Pharmacology and Toxicology, Biotechnology degree, University of Rome Tor Vergata.

**1998-present:** Course of Pharmacology, School of Medicine at the University of Rome Tor Vergata

**1993-present:** Course of Pharmacology, Orthoptist degree, University of Rome Tor Vergata.

**1993-1999:** Course of Pharmacology, Nursing degree, University of Rome Tor Vergata.

**1992-1998:** Course of Oncology, Biotechnology degree, University of Rome Tor Vergata.

## PUBLICATIONS

### Full papers

1. Riccardi C., Migliorati G., Giuliani-Bonmassar A., **Graziani G.** Adriamycin: Mechanisms of modulation of natural antitumor reactivity. *Drugs under Experimental and Clinical Research* 9: 365-368, 1983.
2. Giuliani-Bonmassar A., **Graziani G.**, Frati L., Bonmassar E. Interferon-induced changes of the susceptibility of murine and human lymphoma cells to natural cytotoxic lymphocytes. *International Journal of Tissue Reaction* 6: 35-41, 1984.
3. De Vecchis L., **Graziani G.**, Macchi B., Grandori C., Pastore S., Popovic M., Gallo R. C., Bonmassar E. Decline of natural cytotoxicity of human lymphocytes following infection with human T cell leukemia/lymphoma virus (HTLV). *Leukemia Research* 9: 349-355, 1985.
4. **Graziani G.**, Pasqualetti D., Lopez E., D'Onofrio C., Testi A.M., Mandelli F., Gallo R.C., Bonmassar E. Increased susceptibility of peripheral mononuclear cells of leukemic patients to HTLV-I infection *in vitro*. *Blood* 69: 1175-1181, 1987.
5. D'Onofrio C., Perno C.F., Mazzetti P., **Graziani G.**, Calì R., Bonmassar E. Depression of early phase of HTLV-I infection *in vitro* mediated by human Beta-interferon. *British Journal of Cancer* 57: 481-488, 1988.
6. Fuggetta M.P., **Graziani G.**, Aquino A., D'Atri S., Bonmassar E. Effect of hydrocortisone on human natural killer activity and its modulation by beta interferon. *International Journal of Immunopharmacology* 10: 687-694, 1988.
7. **Graziani G.**, Ron D., Eva A., Srivastava S.K. The human *dbl*-proto-oncogene product is a cytoplasmic phosphoprotein which is associated with the cytoskeletal matrix. *Oncogene* 4: 823-829, 1989.
8. Ron D., **Graziani G.**, Aaronson S.A., Eva A. The N-terminal region of proto-*dbl* down regulates its transforming activity. *Oncogene* 4: 1067-1072, 1989.
9. Eva A., **Graziani G.**, Zannini M., Merin L.M., Killian J.S., Overbeek P.A. Dominant dysplasia of the lens in transgenic mice expressing the *dbl* oncogene. *The New Biologist* 3: 158-168, 1991.
10. Graziani G., Ron D., Srivastava S., Eva A. Expression of the human *dbl*-oncogene and proto-oncogene products in insect cells using a baculovirus vector. *Annali dell'Istituto superiore di sanità*, 27(1), pp. 115-121, 1991.
11. Garcia de Herreros A., Dominguez I., Diaz-Meco M.T., **Graziani G.**, M.E. Cornet, Guddal P.H, Johansen T., Moscat J. Requirement of phospholipase C-catalyzed hydrolysis of *Xenopus laevis* oocytes in response to insulin and ras *p21*. *Journal of Biological Chemistry* 266:6825-6829, 1991.
12. Ron D., Zannini M., Lewis M., Wichner R.B., Hunt L.T., **Graziani G.**, Tronick S.R., Aaronson S.A., Eva. A. A region of proto-*dbl* essential for its transforming activity shows a sequence similarity to a yeast cell cycle gene, CDC 24, and the human breakpoint cluster gene, bcr. *The new Biologist* 3: 372-379, 1991.
13. Eisemann A., Ahn J.A., **Graziani G.**, Tronick S.R., Ron D. Alternative splicing generates at least five different isoforms of the human basic-FGF receptor. *Oncogene* 6: 1195-1202, 1991.
14. Dominguez I., Marshall M.S., Gibbs J.B., De Herreros A.G., Cornet M.E., **Graziani G.**, Diaz-Meco M.T., Johansen T., McCormick F., Moscat J. Role of GTPase activating protein in mitogenic signalling through phosphatidylcholine-hydrolysing phospholipase C. *EMBO Journal* 10: 3215-3220, 1991.
15. **Graziani G.**, Nebreda A.R., Srivastava S., Santos E., Eva A. Induction of *Xenopus* oocyte meiotic maturation by the *dbl* oncogene product. *Oncogene* 7: 229-235, 1992.
16. **Graziani G.**, Faraoni I., Zhang J., Caronti B., Lauro G., Bonmassar E., Macchi B. Transient HTLV-I infection of a human glioma cell line following cell-free exposure. *Virology* 197: 767-769, 1993.
17. Fuggetta M.P., Aquino A., Pepponi R., D'Atri S., Lanzilli G., Bonmassar E., **Graziani G.** In vitro combined effects of human interferons and interleukin-2 on natural cell-mediated cytotoxicity. *International Journal of Immunopharmacology* 15: 1-10, 1993.
18. Macchi B., **Graziani G.**, Zhang J., Mastino A. Emergence of double-positive CD4/CD8 cells from adult peripheral blood mononuclear cells infected with Human T Cell Leukemia Virus Type I (HTLV-I). *Cellular Immunology* 149: 376-389, 1993.
19. Piccioni D., D'Atri S., Papa G., Caravita T., Franchi A., Bonmassar E., **Graziani G.** Cisplatin increases sensitivity of human leukemic blasts to triazene compounds. *Journal of Chemotherapy* 7: 224-228, 1995.
20. Tentori L., **Graziani G.**, Gilberti S., Lacal P.M., Bonmassar E., D'Atri E. Triazene compounds induce apoptosis in O<sup>6</sup>-alkylguanine-DNA alkyltransferase deficient leukemia cell lines. *Leukemia* 9: 1888-1895, 1995.
21. Giuliani A., Vernole P., D'Atri S., Del Poeta G., D'Onofrio C., Faraoni I., Greiner J.W., Bonmassar E., **Graziani G.** In vitro infection of leukemic bone-marrow with HTLV-I generates immortalized cell lines expressing T or myeloid cell phenotype. *Leukemia* 9: 2071-2081, 1995.
22. **Graziani G.**, Faraoni I., Grohmann U., Bianchi R., Binaglia L., Margison G. P., Watson A.J., Orlando L., Bonmassar E., D'Atri S. O<sup>6</sup>-alkylguanine-DNA alkyltransferase attenuates triazene-induced cytotoxicity and tumor cell immunogenicity in murine L1210 leukemia. *Cancer Research* 55: 6231-6236, 1995.
23. Reich-Slotky R., Shaoul E., Berman B., **Graziani G.**, Ron D. Chimeric molecules between keratinocyte growth factor and basic fibroblast growth factor define domains that confer receptor binding specificities. *Journal of Biological Chemistry* 270: 29813-8, 1995.

24. Lacal P.M., D'Atri S., Orlando L., Bonmassar E., **Graziani G.** In vitro inactivation of human O<sup>6</sup>-alkylguanine-DNA alkyltransferase by antitumor triazene compounds. *The Journal of Pharmacology and Experimental Therapeutics* 279: 416-422, 1996.
25. Prete S.P., Aquino A., Masci G., Orlando L., Giuliani A., De Santis S., De Vecchis L., De Filippi R., Greiner J.W., Bonmassar E., **Graziani G.** Drug-induced changes of carcinoembryonic antigen expression in human cancer cells: effect of 5-fluoracil. *The Journal of Pharmacology and Experimental Therapeutics* 279: 1574-1581, 1996.
26. Faraoni I., Turriziani M., Bonmassar E., De Vecchis L., **Graziani G.** Development of a novel in vitro chemosensitivity assay: telomerase as a possible marker of tumor cell survival. *Journal of Chemotherapy* 8: 394-398, 1996.
27. Faraoni I., Turriziani M., **Graziani G.**, De Vecchis L., Bonmassar E. Telomerase as a marker of tumor cell viability: a new approach for in vitro chemosensitivity assays. *Journal of Experimental and Clinical Cancer Research* 15: 311-312, 1996.
28. Giuliani A., Tentori L., Pepponi R., Porcelli S.A., Aquino A., Orlando L., Sugita M., Brenner M.B., Bonmassar E., **Graziani G.** Cytokine-induced expression of CD1b molecules by peripheral blood monocytes: influence of 3'-Azido-3'-deoxythymidine. *Pharmacological Research* 35: 135-140, 1997.
29. Tentori L., Orlando L., Lacal P.M., Benincasa E., Faraoni I., Bonmassar E., D'Atri S., **Graziani G.** Inhibition of O<sup>6</sup>-alkylguanine-DNA alkyltransferase or poly(ADP-ribose) polymerase increases susceptibility of leukemic cells to apoptosis induced by temozolomide. *Molecular Pharmacology* 52: 249-258, 1997.
30. Tricarico M., **Graziani G.**, Franzese O., Giuliani A., Starace G., Fuggetta M.P. CD1b expression in Molt-4 clones exposed to IL-4 and GM-CSF. *European Journal of Histochemistry* 41: 119-120, 1997.
31. Testorelli C., Bussini S., De Filippi R., Marelli O., Orlando L., Greiner J.W., Grohmann U., Tentori L., Giuliani A., Bonmassar E., **Graziani G.** Dacarbazine-induced immunogenicity of a murine leukemia is attenuated in cells transfected with mutated K-ras gene. *Journal of Experimental and Clinical Cancer Research* 16: 15-22, 1997.
32. Faraoni I., Turriziani M., Masci G., De Vecchis L., Shay J.S., Bonmassar E., **Graziani G.** Decline in telomerase activity as a measure of tumor cell killing by antineoplastic agents *in vitro*. *Clinical Cancer Research* 3: 579-585, 1997.
33. Tentori L., **Graziani G.**, Porcelli S.A., Sugita M., Brenner M.B., Madaio R. Bonmassar E., Giuliani A., Aquino A. Rifampin increases cytokine-induced expression of CD1b molecule in human peripheral blood monocytes. *Antimicrobial Agents and Chemotherapy* 42: 550-554, 1998.
34. Tentori L., Lacal P.M., Benincasa E., Franco D., Faraoni I., Bonmassar E., **Graziani G.** Role of wild-type p53 on the antineoplastic activity of temozolomide alone or combined with an inhibitor of poly(ADP-ribose) polymerase. *The Journal of Pharmacology and Experimental Therapeutics* 285: 884-893, 1998.
35. D'Atri S., Tentori L., Lacal P.M., **Graziani G.**, Pagani E., Benincasa E., Zambruno G, Bonmassar E., Jiricny J. (1998) Involvement of the mismatch repair system in temozolomide-induced apoptosis. *Molecular Pharmacology* 54: 334-341, 1998.
36. Giuliani A., Porcelli S.A., Tentori L., **Graziani G.**, Testorelli C., Prete S.P., Brenner M.B., Bonmassar E., Bussini S., Cappelletti D., Aquino A. Effect of rifampin on CD1b molecule induction in peripheral blood monocytes and on mycobacteria recognition by double-negative T cells. *Life Sciences* 63: 985-994, 1998.
37. Bonmassar E., Aquino A., Giuliani A., Porcelli S.A., Tentori L., Testorelli C., Prete S.P., Brenner M.B., Cirello I., Cappelletti D., **Graziani G.** New aspects of immune responses against mycobacteria: immunopharmacology studies. *Haematologica* 83: 58-59, 1998.
38. Levati L., Marra G., Lettieri T., D'Atri S., Vernole P., Tentori L., Lacal P.M., Pagani E., Bonmassar E., Jiricny J., **Graziani G.** Mutation of the mismatch repair gene hMSH2 in a human T-cell leukemia line tolerant to methylating agents. *Gene Chromosome & Cancer* 23: 159-166, 1998.
39. Franzese O., Comandini A., Cannavò E., **Graziani G.**, Bonmassar E. Effect of prostaglandin on proliferation and telomerase activity of human melanoma cells in vitro. *Melanoma Research* 8: 323-328, 1998.
40. Aquino A., Prete S.P., Giuliani A., **Graziani G.**, Turriziani M., de Filippi R., Masci G., Greiner J.W., Bonmassar E., De Vecchis L. Effect of the combined treatment with 5-fluorouracil,  $\alpha$ -interferon or folinic acid in carcinoembryonic antigen expression in colon cancer cells. *Clinical Cancer Research* 4: 2473-2481, 1998.
41. Tonini G., Nunziata C., Prete S.P., Pepponi R., Turriziani M., Masci G., **Graziani G.**, Bonmassar E., De Vecchis L. Adjuvant treatment of breast cancer: a pilot immunochemotherapy study with CMF, interleukin-2 and interferon-alpha. *Cancer Immunology and Immunotherapy* 47: 157-176, 1998.
42. Tricarico M., Macchi B., Morrone S., Bonmassar E., Fuggetta M.P., **Graziani G.** In vitro infection of CD4+ T lymphocytes with HTLV-I generates immortalized cell line coexpressing lymphoid and myeloid markers. *Leukemia* 13: 222-229, 1999.
43. Tentori L., Turriziani M., Franco D., Serafino A., Levati L., Roy R., Bonmassar E., **Graziani G.** Treatment with temozolomide and poly(ADP-ribose) polymerase inhibitors induces early apoptosis and increases base excision repair gene transcripts in leukemic cells resistant to triazene compounds. *Leukemia* 13: 901-909, 1999.
44. Faraoni I., **Graziani G.**, Turriziani M., Masci G., Mezzetti M., Testori A., Veronesi U., Bonmassar E. Suppression of telomerase activity as an indicator of drug-induced cytotoxicity against cancer cells: in vitro studies with fresh human tumor samples. *Laboratory Investigation* 79: 993-1005, 1999.

45. Faraoni I., **Graziani G.** Telomerase as a potential anticancer target: growth inhibition and genomic instability. *Drug Resistance Updates* 3: 3-6, 2000.
46. Aquino A., Prete S.P., Baier S., Cappelletti D., Greiner J.W., De Vecchis L., **Graziani G.**, Bonmassar E. Staurosporine increases carcinoembryonic antigen expression in a human colon cancer cell line. *Journal of Chemotherapy* 12: 167-172, 2000.
47. Faraoni I., Bonmassar E., **Graziani G.** Clinical applications of telomerase in cancer treatment. *Drug Resistance Updates* 3: 161-170, 2000.
48. D'Atri S., **Graziani G.**, Lacal P.M., Nisticò V., Gilberti S., Faraoni I., Watson A.J., Bonmassar E., Margison G.P. Attenuation of O<sup>6</sup>-Methylguanine-DNA Methyltransferase Activity and mRNA levels by Cisplatin and Temozolomide in Jurkat Cells. *The Journal of Pharmacology and Experimental Therapeutics* 294: 664-671, 2000.
49. Tentori L., Vernole P., Lacal P.M., Madaio R., Portarena I., Levati L., Balduzzi A., Turriziani M., Dande P., Gold B., Bonmassar E., **Graziani G.** Cytotoxic and clastogenic effects of a DNA minor groove binding methyl sulfonate ester in mismatch repair deficient leukemia cells. *Leukemia* 14: 1451-1459, 2000.
50. Aquino A., Prete P.S., Guadagni F., Greiner J.W., Giuliani A., Orlando L., Masci G., De Santis S., Bonmassar E., **Graziani G.** Effect of 5-fluorouracil on carcinoembryonic antigen expression and shedding at clonal level in colon cancer cells. *Anticancer Research* 20: 3475--3484, 2000.
51. Prete S.P., Giuliani A., Iona E., Fattorini L., Orefici G., Franzese O, Bonmassar E., **Graziani G.** Bacillus calmette-guerin down-regulates CD1b induction by granulocyte-macrophage colony stimulating factor in human peripheral blood monocytes. *Journal of Chemotherapy* 13: 52-58, 2001.
52. Tentori L., Portarena I., Vernole P., De Fabritiis P., Madaio R., Balduzzi A., Roy R., Bonmassar E., **Graziani G.** Effects of single or split exposure of leukemic cells to temozolomide, combined with poly(ADP-ribose) polymerase inhibitors on cell growth, chromosomal aberrations and base excision repair components. *Cancer Chemotherapy and Pharmacology* 47: 361-369, 2001.
53. Tentori L., Portarena I., Bonmassar E., **Graziani G.** Combined effects of adenovirus-mediated wild-type p53 transduction, temozolomide and poly (ADP-ribose) polymerase inhibitor in mismatch repair deficient and non-proliferating tumor cells. *Cell Death & Differentiation* 8: 457-469, 2001.
54. Tentori L., Balduzzi A., Portarena I., Levati L., Vernole P., Gold B., Bonmassar E., **Graziani G.** Poly (ADP-ribose) polymerase inhibitor increases apoptosis and reduces necrosis induced by a DNA minor groove binding methyl sulfonate ester. *Cell Death & Differentiation*, 8: 817-828, 2001.
55. Pepponi R., **Graziani G.**, Falcinelli S., Vernole P., Levati L., Lacal P.M., Pagani E., Bonmassar E., Jiricny J., D'Atri S. hMSH3 overexpression and cellular response to cytotoxic anticancer agents. *Carcinogenesis* 22: 1131-1137, 2001.
56. Giuliani A., Prete S.P., **Graziani G.**, Aquino A., Balduzzi A., Sugita M., Brenner M.B., Iona E., Fattorini L., Orefici G., Porcelli S.A., Bonmassar E. Influence of Mycobacterium bovis bacillus Calmette Guerin on in vitro induction of CD1 molecules in human adherent mononuclear cells. *Infection and Immunity* 69: 7461-70, 2001.
57. Tentori L., Portarena I., **Graziani G.** Potential clinical applications of poly(ADP-ribose) polymerase (PARP) inhibitors. *Pharmacological Research* 45: 73-85, 2002.
58. Tentori L., Portarena I., Vernole P., Gold B., **Graziani G.** Apoptotic and genotoxic effects of a methyl sulfonate ester that selectively generates N3-methyladenine and poly (ADP-ribose) polymerase inhibitors in normal peripheral blood lymphocytes *Cancer Chemotherapy and Pharmacology* 49: 217-224, 2002.
59. Tentori L., Leonetti C., Scarsella M., d'Amati G., Portarena I., Zupi G., Bonmassar E., **Graziani G.** Combined treatment with temozolomide and poly(ADP-ribose) polymerase inhibitor enhances survival of mice bearing hematologic malignancy at the central nervous system site. *Blood* 99: 2241-2244, 2002.
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62. Prete S.P., Cappelletti D., Baier S., Nasuti P., Guadagni F., De Vecchis L., Greiner J.W., Bonmassar E., **Graziani G.**, Aquino A. Pharmacological modulation of carcinoembryonic antigen in human cancer cells: studies with staurosporine. *International Immunopharmacology* 2: 641-51, 2002.
63. Aquino A., Prete S.P., Balduzzi A., Formica V., Fossile Emanuela, Bonmassar L., Concolino F., Bonmassar E., **Graziani G.** Treatment of peripheral blood with staurosporine increases detection of circulating carcinoembryonic antigen positive tumor cells. *International Journal of Cancer* 100: 119-121, 2002.
64. Aquino A., Prete S.P., Balduzzi A., Fossile E., Formica V., Torino F., Bonmassar L., Di Giacomo A., Cappelletti D., Cardillo A., **Graziani G.** A novel method for monitoring response to chemotherapy based on the detection of circulating cancer cells: a case report. *Journal of Chemotherapy* 14: 412-416, 2002.
65. Tentori L., Portarena I., Torino F., Scerrati M., Navarra P., **Graziani G.** Poly(ADP-ribose) polymerase inhibitor increases growth inhibition and reduces G<sub>2</sub>/M cell accumulation induced by temozolomide in malignant glioma cells. *Glia* 40: 44-54, 2002.

66. Tentori L., **Graziani G.** Pharmacological strategies to increase the antitumor activity of methylating agents. *Current Medicinal Chemistry* 9: 1285-1301, 2002.
67. Tentori L., Leonetti C., Scarsella M., D'Amati G., Vergati M., Portarena I., Xu W., Kalish V., Zupi G., Zhang J., **Graziani G.** Systemic administration of GPI 15427, a novel poly(ADP-ribose) polymerase-1 inhibitor, increases the antitumor activity of temozolomide against intracranial melanoma, glioma, lymphoma. *Clinical Cancer Research* 9:5370-5379, 2003.
68. **Graziani G.**, Tentori L., Portarena I., Vergati M., Navarra P. Valproic acid increases the stimulatory effect of estrogens on proliferation of human endometrial adenocarcinoma cells. *Endocrinology* 144: 2822-2828, 2003.
69. Tentori L., Portarena I., Barbarino M., Balduzzi A., Levati L., Vergati M., Biroccio A., Gold B., Lombardi M.L., **Graziani G.** Inhibition of telomerase increases resistance of melanoma cells to temozolomide, but not to temozolomide combined with poly (ADP-ribose) polymerase inhibitor. *Molecular Pharmacology* 63: 192-202, 2003.
70. Vairano M., **Graziani G.**, Tentori L., Trincali G., Navarra P., Dello Russo C. Primary cultures of microglial cells for testing toxicity of anticancer drugs. *Toxicology Letters* 148: 91-94, 2004.
71. Tentori L., **Graziani G.** Correspondence re: DC Lev et al., Dacarbazine causes transcriptional up-regulation of interleukin 8 and vascular endothelial growth factor in melanoma cells: a possible escape mechanism from chemotherapy. *Mol Cancer Ther*, 2003;2(8):753-63. *Molecular Cancer Therapeutics* 2004;3:383; author reply 383-4.
72. Tentori L., **Graziani G.** Temozolomide: an update on pharmacological strategies to increase its antitumor activity. *Medicinal Chemistry Reviews-Online* 1:144-150,2004.
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76. **Graziani G.**, Battaini F., Zhang J. PARP-1 inhibition to treat cancer, ischemia, inflammation. *Pharmacological Research* 52:1-4, 2005.
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