

PUBBLICAZIONI SCIENTIFICHE

Riviste con peer-review

1. Galbiati E., Calderini G., VIOLA G. Toffano G. Phorbol 12-myristate 13-acetate induces prolactin secretion from rat anterior pituitary gland by the activation of protein kinase-C. *Pharmacol. Res. Commun.* (1986), 18, 687-698.
2. Miccheli A., Aureli T., Delfini M., Di Cocco M.E., VIOLA G., Gobetto R. Conti F. Study on influence of inactivation enzyme techniques and extraction procedures on cerebral phosphorylated metabolite levels by ³¹P NMR spectroscopy. *Cell. Mol. Biol.* (1988), 34, 591-603.
3. Bellini F., VIOLA G., Menegus A. M., Toffano G., Bruni A. Signalling mechanism in the lysophosphatidylserine-induced activation of mouse mast cells. *Biochim. Biophys. Acta –(Molecular Cell research)* (1990), 1052, 216-220.
4. Bellini F., VIOLA G., Bruni A. Interaction between nerve growth factor and lysophosphatidylserine in rat peritoneal mast cells. *Intern. J. Neuroscience* (1990), 51, 329-330.
5. Palatini P., VIOLA G., Bigon E., Menegus A.M., Bruni A. Pharmacokinetic characterization of phosphatidylserine liposomes in the rat. *Br. J. Pharmacol.* (1991), 102, 345-350.
6. Bruni A., Orlando P., Mietto L., VIOLA G. Phospholipid metabolism in rat intestinal mucosa after oral administration of lysophospholipids. *Adv. Exp. Med. Biol.* (1992), 318, 243-249.
7. VIOLA G., Mietto, F. Secchi, L. Ping L., Bruni A. Reduced arachidonate incorporation in lipoproteins of rats receiving lysophosphatidylserine by oral route. *J. Lipid Res.* (1993), 34, 1843-1852.
8. Da Settimo A., Da Settimo F., Marini A.M., Primofiore G., Salerno S., VIOLA G. Dalla Via L. Marciani Magno S. Synthesis, DNA binding and in vitro antiproliferative activity of purinoquinazoline, pyridopyrimidopurine and pyridopyrimidobenzimidazole. *Eur J. Med. Chem.* (1998), 33, 685-696.
9. Dalla Via L., Gia O., VIOLA G., Bertoloni G., Santana L., Uriarte E. Photobiological studies of new cyclopentene-psoralens. *Il Farmaco* (1998), 53, 638-644.
10. VIOLA G., Miolo G., Vedaldi D. Dall'Acqua F. In vitro studies of the phototoxic potential of the antidepressant drugs amitriptyline and imipramine *Il Farmaco* (2000), 55, 211-218.
11. VIOLA G., Uriarte E., Gia O., Moro S. Interactions between DNA and new benzopsoralen derivatives: thermodynamic and molecular modeling studies. *Il Farmaco* (2000), 55, 276-286.
12. Ihmels H., Faulhaber K., Sturm C., Bringmann G., Messer K., Gabellini N., Vedaldi D., VIOLA G. Acridizinium salts as a novel class of DNA-binding and site-selective DNA-photodamaging chromophores *Photochem. Photobiol.* (2001), 74, 505-511.
13. Ihmels H., Faulhaber K., Wissel K., Bringmann G., Messer K., VIOLA G., Vedaldi D., Synthesis and investigation of the DNA-binding and DNA-photodamaging properties of indolo[2,3b]quinolizinium. *Eur. J. Org. Chem* (2001), 6, 1157-1161.

14. Elisei F., Latterini L., Aloisi G., Mazzuccato U., VIOLA G., Miolo G., Vedaldi D., Dall'Acqua F. Excited state properties and in vitro phototoxicity studies of three phenothiazine derivatives. *Photochem. Photobiol.* (2002), 75, 11-21.
15. Chimichi S. Boccalini M., Cosimelli B., VIOLA G., Vedaldi D., Dall'Acqua F. A convenient synthesis of psoralens *Tetrahedron* (2002), 58, 4859-4863.
16. VIOLA G., Dall'Acqua F., Gabellini N., Moro S., Vedaldi D., Ihmels H. Indolo[2,3-b]-quinolizinium bromide: an efficient intercalator with DNA-photodamaging properties. *ChemBioChem* (2002), 3, 550-558.
17. Miolo G., VIOLA G., Vedaldi D., Dall'Acqua F., Fravolini A., Tabarrini O., Cecchetti V. Phototoxic properties of new 6-desfluoro and 6-Fluoro 8-methylquinolones: an in vitro study. *Toxicology in Vitro* (2002), 16, 683-693.
18. VIOLA G., Bressanini M., Gabellini N., Vedaldi D., Dall'Acqua F. Ihmels H. Naphthoquinolizinium derivatives as a novel platform for DNA-binding and DNA-photodamaging chromophores. *Photochemical and Photobiological Sciences* (2002), 1, 882-889.
19. Dall'Acqua S., Innocenti G., VIOLA G., Piovan A., Caniato R., Cappelletti E.M. Cytotoxic compounds from *Polygala Vulgaris* *Chem. Pharm. Bull.* (2002), 50, 1499-1501.
20. Chimichi S. Boccalini M., Cosimelli B., VIOLA G., Vedaldi D., F. Dall'Acqua New geiparvarin analogues from 7-(2-oxoethoxy)coumarins as efficient antitumoral agents. *Tetrahedron Letters*. (2002), 43, 7473-7476.
21. Schmittel M., Strittmatter M., VIOLA G., F. Dall'Acqua, Morbach G. A novel concept to activate enedynes for DNA cleavage *Chem. Comm.* (2003), 1, 646-647.
22. VIOLA G., Latterini L., Vedaldi D., Aloisi G., Dall'Acqua F., Gabellini N., Elisei F., Barbafina A. Photosensitization of DNA strand breaks by three phenothiazines derivatives *Chem Res. Toxicol.*(2003), 16, 644-651.
23. Barraja P., Diana P., Lauria A., Montalbano A., Almerico A.M., Dattolo G., Cirrincione G., VIOLA G., Dall'Acqua F.. Pyrrolo[2,3-*h*]quinolinones: synthesis and photochemiotherapeutic activity *Bioorg. Med. Chem. Lett.* (2003) 13, 2809-2811.
24. Chimichi S. Boccalini M., Cosimelli B., F. Dall'Acqua, VIOLA G., New 5-(2-ethenylsubstituted)-3(2*H*)-furanones with antiproliferative activity *Tetrahedron* (2003), 59, 5215-5223.
25. Ihmels H., Faulhaber K., Wissel K., VIOLA G., Vedaldi D. 6-Aminoacridizinium Bromide: A fluorescent probe which lights up in AT-rich region *Organic and Biomolecular Chemistry* (2003), 1, 2999-3001.
26. Vedaldi D., Dolmella A., Moro S., Miolo G., VIOLA G., Caffieri S., Dall'Acqua F., 1-Thioangelicin: crystal structure, computer aided studies and photobiological activity. *Il Farmaco*, (2004), 59, 125-132.
27. Dall'Acqua S., VIOLA G., Cappelletti R., Innocenti G. Xanthones from *Poligala sylvestris* *Z. Naturforschung Sez. C Biosciences.* (2004), 59, (5-6), 335-338.

28. Aloisi G., Barbafina A., Canton M., Dall'Acqua F., Elisei F., Mazzuccato U., Facciolo L., Latterini L., VIOLA G., Photophysical and photobiological behaviour of antimalarial drugs in aqueous solutions *Photochem. Photobiol.* (2004), 79, 248-258.
29. VIOLA G., Facciolo L., Dall'Acqua S., Di Lisa F., Canton M., Vedaldi D., Fravolini A., Tabarrini O., Cecchetti V. 6-Aminoquinolones: photostability, cellular distribution and phototoxicity *Toxicology in vitro* (2004), 18, 581-592.
30. VIOLA G., Facciolo L., Vedaldi D., Disarò S., Basso G., Dall'Acqua F. Differential response of linear and angular psoralen in PUVA-induced apoptosis in HL-60 cells *Photochemical and Photobiological Sciences* (2004), 3, 237-239.
31. VIOLA G., Facciolo L. M. Canton D. Vedaldi, F. Dall'Acqua F., Elisei F., Barbafina A., Amelia M., Aloisi G., L. Latterini Photophysical and phototoxic properties of levofloxacin and moxifloxacin two antibacterial fluoroquinolones *Chemistry & Biodiversity* (2004), 1, 782-801.
32. VIOLA G., Galbiati E. Mast cell pituitary interaction: modulation by serine phospholipids *Die Pharmazie* (2004), 59, 948-951.
33. VIOLA G., Ihmels H., Kraussler H., Vedaldi D., Dall'Acqua F. DNA-binding and DNA-photocleaving properties of 12a,14a-diazoniapentaphene *Arkivoc* (2004), Part 5, 219-230.
34. VIOLA G., Vedaldi D., Dall'Acqua F., Basso G., Disarò S., Spinelli M., Cosimelli B. Boccalini M., Chimichi S. Synthesis, cytotoxicity and apoptosis induction by new geparvarine analogues *Chemistry & Biodiversity* (2004), 1, 1265-1280.
35. Dall'Acqua S. VIOLA G., Piacente S., Cappelletti E.M., Innocenti G. Cytotoxic compounds from *Polygala Vulgaris* *J. Nat. Prod.* (2004), 67, 1588-1590.
36. Hafliker P., Agorastos N., Spingler B, Georgiev O., VIOLA G., Roger A. Induction of DNA double strand breaks by Auger electrons from ^{99m}Tc complexes with DNA binding ligands *ChemBioChem* (2005), 6, 414-421.
37. Barraja P., Sciabica L., Diana P., Lauria A., Montalbano A., Almerico A.M., Dattolo G., Cirrincione G., Disarò S., Basso G., VIOLA G., F. Dall'Acqua. Synthesis and photochemiotherapeutic activity of thiopyrano[2,3-e]indol-2-ones *Bioorg. Med. Chem. Lett.* (2005), 15, 2291-2294.
38. Ihmels H., Faulhaber K., Dall'Acqua F., Vedaldi D., VIOLA G. Intercalation of organic dye molecules into double strand DNA Part 2: The annellated quinolininium ion as a structural motif DNA intercalators *Photochem. Photobiol.* (2005), 81, 1107-1115.
39. VIOLA G., Salvador A., Vedaldi D., Fortunato E., Disarò S., Basso G., Queiroz M.R.J.C. Induction of apoptosis by photoexcited tetracyclic compounds derivatives of benzo[b]thiophenes and pyridines *J. Photochem. Photobiol. B Biol.* (2006), 82, 110-116.
40. Gasparotto V., Castagliuolo I., Chiarello G., Pezzi V., Montanaro D., Brun P., Palù G., VIOLA G., Ferlin M. G. Synthesis and biological activity of 7-phenyl-6,9-dihydro-3H-pyrrolo[3,2-f]quinoline-9-ones: a new class of antimitotic agents devoid of aromatase activity. *J. Med. Chem.* (2006), 49, 1910-1915.

41. Chimichi S., Boccalini M., Hassan M., VIOLA G., dall'Acqua F., Curini M. Synthesis, structural determination and photo-antiproliferative activity of new 3-pyrazol or isoxazolyl substituted 4-hydroxy-2(1H)quinolones. *Tetrahedron* (2006), 62, 90-96.
42. Innocenti G., Dall'Acqua S., VIOLA G., Loi M.C., Cytotoxic constituents of *Anagyris fetida* leaves *Fitoterapia* (2006), 77, 595-597.
43. VIOLA G., Dall'Acqua F. Photosensitization of biomolecules by phenothiazine derivatives *Current Drug Targets* (2006), 7, 1135-1154.
44. Dall'Acqua S. VIOLA G., Giorgetti M., Loi M.C. Innocenti G. Two new sesquiterpene lactones from the leaves of *Laurus nobilis* *Chem. Pharm. Bull.* (2006), 54, 1187-1189.
45. Barraja P., Diana P., Montalbano A., Dattolo G., Cirrincione G., VIOLA G., Vedaldi D., Dall'Acqua F. Pyrrolo[2,3-*h*]quinolinones: a new ring system with potent photoantiproliferative activity *Bioorg. Med. Chem.* (2006), 14, 8712-8728.
46. Ihmels H., Otto D. dall'Acqua F., Faccio A., Moro S., VIOLA G. Comparative studies on the DNA-binding properties of linear and angular dibenzoquinolizinium ions. *J. Org. Chem.* (2006), 71, 8401-8411.
47. Faulhaber K., Granzhan A., Ihmels H., VIOLA G. Detection of biomacromolecules with fluorescent ligh-up probes *Pure&Appl. Chem.* (2006), 78, 2325-2331.
48. VIOLA G., Fortunato E., Ceconet L., Basso G. Caspase and mitochondrial dysfunction dependent mechanism of induced apoptosis by photoexcited psoralen derivatives in human lymphocytes *Toxicology in vitro* (2007), 21, 211-216.
49. Granzhan A., Ihmels H., VIOLA G. 9-donor-substituted acridizinium salts: versatile environment-sensitive fluorophores for the detection of biomacromolecules *J. Am. Chem. Soc.* (2007), 129, 1254-1267.
50. Aloisi G.G., Amelia M., Barbafiga A., Latterini L., Elisei F., Dall'Acqua F., Vedaldi D., Faccio A. VIOLA G. DNA cleavage induced by photoexcited antimalarial drugs: a photophysical and photobiological study. *Photochem. Photobiol.* (2007), 83, 664-674.
51. Dall'Acqua F., VIOLA G. Vedaldi D., Aloisi G, Elisei F., Latterini L., Passeri R. Photoinduced modifications by fluoroquinolones drugs in bovine serum albumin (BSA) and ribonuclease a (RNase) as model proteins *Arkivoc* (2007), Vol. 2007 part (viii) 231-244.
52. Agorastos N., Borsig L., Renard A., VIOLA G., Spingler B., Kurz P., Alberto R. Cell Specific Nuclear Targeting with $[M(CO)_3]^{1+}$ ($M = {}^{99m}Tc, Re$) Based Complexes Conjugated to Acridine Orange and Bombesin *Chemistry European Journal* (2007), 13, 3842-3852.
53. VIOLA G., Salvador A., Ceconet L., Basso G., Vedaldi D., Dall'Acqua F., Aloisi G.G., Amelia M., Barbafiga A., Latterini L., Elisei F. Photophysical properties and photobiological behaviour of amodiaquine, primaquine and chloroquine. *Photochem. Photobiol.* (2007), 83, 1415-1427.
54. Benner K., Granzhan A., Ihmels H., VIOLA G. Targeting abasic sites in DNA by aminoalkyl-substituted acridizinium carboxamides and acridizinium-adenine conjugates *Eur. J. Org. Chem* (2007), 28, 4721-4730.

55. Basili S., Bergen A., Dall'Acqua F., Faccio A., Granzhan A., Ihmels H., Moro S., VIOLA G. Relationship between the structure and the DNA-Binding Properties of Diazoniapolycyclic duplex- and triplex-DNA binders: efficiency, selectivity and binding mode. *Biochemistry*. (2007), 46, 12721-12736.
56. VIOLA G. Vedaldi D. F. Dall'Acqua Fortunato E., Basso G. Bianchi N. Zuccato C. Borgatti M., Lampronti I., Gambari R. Induction of γ -globin mRNA, erythroid differentiation and apoptosis in UVA-irradiated human erythroid cells in the presence of furocoumarine derivatives *Biochem. Pharmacology* (2008), 75, 810-825.
57. VIOLA G. Fortunato E., Ceconet L., Del Giudice L., Dall'Acqua, F. Basso G. Central role of mitochondria and p53 in PUVA-induced apoptosis in human keratinocytes cell line NCTC-2544. *Toxicology and Applied Pharmacology* (2008), 227, 84-96.
58. R.F. Vitor, I. Correia, M. Videira, F. M., A. Paulo, J. Costa Pessoa, VIOLA G., G. Martins, I. Santos Pyrazolyl-Diamine Ligands Bearing Anthracenyl Moieties and Their Rhenium(I) Tricarbonyl Complexes: Synthesis, Characterization and DNA-Binding Properties *ChemBioChem* (2008), 9, 131-142.
59. Chimichi S., Boccalini M., Selleri S., Costagli C., Guerrini G., VIOLA G. On the reactivity of 6-acetyl-7-(2-dimethylaminovinyl)pyrazolo[1,5-*a*]pyrimidines with 1,3- and 1,4-bisnucleophiles *Organic and Biomolecular Chemistry* (2008), 6, 739-744.
60. VIOLA G.. Boccalini M., Fortunato E., Dall'Acqua F., Chimichi S. Synthesis and photobiological properties of bromo and alkyloxyfurocoumarins *Letters in Drugs Discovery and Design* (2008), 5, 89-99.
61. Diana P., Martorana A., Barraja P., Montalbano A., Dattolo G., Cirrincione G., Dall'Acqua F., A. Salvador, Vedaldi D., Basso G., VIOLA G.. Isoindolo[2,1-*a*]quinoxaline derivatives: novel potent antitumor agents with dual inhibition of tubulin polymerization and topoisomerase I. *J. Med. Chem.* (2008), 51, 2387-2399.
62. VIOLA G. Vedaldi D. Dall'Acqua F., Borgatti M., Lampronti I., Bianchi N., Zuccato C. Gambari R. Furocoumarin photolysis products induce erythroid differentiation in human erythroid cells *Journal of Photochem. Photobiol. B: Biol* (2008), 92, 24-28.
63. Basili S., Basso G., Faccio A Granzhan A., Ihmels H., Moro S., VIOLA G. Diazoniapolycyclic Ions Inhibit Activity of Topoisomerase I and Growth of Certain Tumor Cell Lines *ChemMedChem* (2008), 3, 1671-1676.
64. Barraja P., Diana P., Montalbano A., Carbone A., Cirrincione G., VIOLA G., Salvador A., Vedaldi D., Dall'Acqua F. Thiopyrano[2,3-*e*]Indol 2-ones: angelicin heteroanalogues with potent photoantiproliferative *Bioorg. Med. Chem.* (2008), 16, 9668-9683.
65. Grobelny P., VIOLA G., Vedaldi D., Dall'Acqua F., Swiglo-Gliszczyńska A., Mielcarek J. Photostability of pitavastatin, a novel HMG-CoA reductase inhibitor *J. Pharm. Biomed. Anal.* (2009), 50, 597-601.
66. Barraja P., Spano' V., Diana P., Carbone A., Cirrincione G., Vedaldi D., Salvador A., VIOLA G., Dall'Acqua F. Pyrano[2,3-*e*]isoindol-2-ones, new Angelicin Heteroanalogues *Bioorg. Med. Chem. Lett.* (2009), 19, 1711-1714.

67. Romagnoli R., Baraldi P.G., Carrion M.D, Cruz-Lopez. O., Lopez Cara C., Balzarini J., Hamel E., Canella A., Fabbri E., Gambari R., Basso G., VIOLA G. Hybrid α -bromoacryloylamido chalcones. Design, synthesis and biological evaluation *Bioorg. Med. Chem. Lett.* (2009), 19, 2022-2028.
68. Chimichi S., Boccalini M., Salvador A., Dall'Acqua F., Basso G., VIOLA G., Synthesis and biological evaluation of new geiparvarin derivatives *ChemMedChem* (2009), 4, 769-779.
69. VIOLA G., Ceconet L., Leszl A., Basso G., Brun P., Salvador A., Dall'Acqua F., Diana P., Barraja P., Cirrincione G. Pyrrolotetrazinones deazaanalogues of temozolomide induce apoptosis in Jurkat cell line: involvement of tubulin polymerization inhibition *Cancer Chem. Pharm.* (2009), 64, 1235-1251.
70. VIOLA G., Salvador A., Vedaldi D., Dall'Acqua F., Bianchi G., Zuccato N., Borgatti M., Lampronti I., Gambari R. Differentiation and apoptosis in UVA-irradiated cells treated with of furocoumarine derivatives *Annals NY Acad. Sci* (2009), 1171, 334-344.
71. Romagnoli R., Baraldi P.G., Carrion M.D., Cruz-Lopez O., Lopez Cara C., Basso G., VIOLA G., Khedr M., Balzarini J., Mahboobi S., Sellmer A., Brancale A., Hamel E., 2-Arylamino-4-Amino-5-Aroylthiazoles. "One-Pot" Synthesis and Biological Evaluation of a New Class of Inhibitors of Tubulin Polymerization *J. Med. Chem.* (2009), 52, 5551-5555.
72. Lampronti I., Bianchi N., Zuccato C., Dall'Acqua F., Vedaldi D., VIOLA G., Potenza G., Chiavilli R., Breveglieri F., Borgatti M., Finotti A., Feriotto G., Salvatori F., Gambari R. Increase of γ -globin mRNA Content in Human Erythroid Cells Treated with angelicin analogues. *Int J Hematol.* (2009), 90, 318-327.
73. Romagnoli R., Baraldi P.G., Cruz-Lopez O., Lopez Cara C., Carrion M.D., Balzarini J., Hamel E., Basso G., Bortolozzi R., VIOLA G., Symmetrical α -broacryloylamido diaryldienone derivatives as a novel series of antiproliferative agents. Design, synthesis and biological evaluation. *Bioorg. Med. Chem. Lett.* (2010), 20, 2733-2739.
74. Romagnoli R., Baraldi P.G., O.Cruz-Lopez, Lopez Cara C. , Carrion M.D., Brancale A., Hamel E., L. Chen, R. Bortolozzi, Basso G., VIOLA G. Synthesis and Antitumor Activity of 1,5-Disubstituted 1,2,4-Triazoles as *cis*-Restricted Combretastatin Analogues *J.Med.Chem.* (2010), 53,4248-4258.
75. VIOLA G., Grobelny P., Linardi M.A., Salvador A., Basso G., Mielcarek J., Dall'Acqua S., Vedaldi D., Dall'Acqua F. The phototoxicity of fluvastatin an HMG-CoA reductase inhibitor is mediated by the formation of a benzocarbazol-like photoproduct. *Toxicol. Sci.* (2010) 118, 236-250.
76. Ferlin M.G., Bortolozzi R., Brun P., Castagliuolo I., Hamel E., Basso G., VIOLA G. Synthesis and *in vitro* biological evaluation of some 3*H*-pyrrolo[3,2-*f*]quinolin-9-one derivatives, showing potent and selective antileukemic activity. *ChemMedChem.* (2010) 5, 1373-1385.
77. Pistollato F., Abbadì S. Rampazzo E., VIOLA G., Della Puppa A., Cavallini L., Frasson C., L. Persano, Panchision D.M., Basso G. Succinate and hypoxia antagonizes 2-deoxyglucose effects on glioblastoma *Biochem. Pharm.* (2010), 80, 1517-1527.
78. Esteves T., Xavier C., Gama S., Mendes F., Raposinho P.D., Marques F., Paulo A., Costa J., Pessoa, J. Rino, VIOLA G., Santos I. Synthesis, characterization, biological evaluation and DNA interaction

studies of tricarbonyl M (I) (M = Re, ^{99m}Tc) complexes bearing acridine fluorophores *Organic & Biomolecular Chemistry* (2010), 8, 4104-4116.

79. Romagnoli R., Baraldi P.G., Lopez Cara C., Hamel E., R. Bortolozzi, Basso G., VIOLA G. Synthesis and Biological Evaluation of 2-(3',4',5'-Trimethoxybenzoyl)-3-Aryl/ArylaminoBenzo[b]thiophene Derivatives as a Novel Class of Antiproliferative Agents. *Eur. J. Med. Chem.* (2010) 45,5781-5791.
80. Barraja P., Spano' V., Diana P., Carbone A., Cirrincione G., Vedaldi D., Salvador A., G. VIOLA, G. Basso, F. Dall'Acqua Pyrrolo[3,4-h]quinolinones as a new class of phototoxic agents *Bioorg. Med. Chem.* (2011) 19, 2326-2341.
81. Romagnoli R., Baraldi P.G., Brancale A., Ricci A., Hamel E., Bortolozzi R., Basso G., VIOLA G. Convergent Synthesis and Biological Evaluation of 2-Amino-4-(3',4',5'-trimethoxyphenyl)-5-Aryl Thiazoles as Microtubule Targeting Agents. *J. Med. Chem.* (2011), 54, 5144-5153.
82. Dall'Acqua F., Linardi M.A., Innocenti G., Basso G., VIOLA G. Bioactive natural daucane sesquiterpene: antiproliferative and proapoptotic activity against human tumor cells *Bioorg. Med. Chem.* (2011), 19, 5876-5885.
83. Romagnoli R., Baraldi P.G., Lopez Cara C., Kimatrai Salvador M., R. Bortolozzi, Basso G., VIOLA G., Balzarini J., Brancale A., Xian-Hua Fu, Jun Li, Su-Zhan Zhang, Hamel E. One-Pot Synthesis and Biological Evaluation of 2-Pyrrolidinyl-4-Amino-5-(3',4',5'-Trimethoxybenzoyl) Thiazole: an Unique Highly Active Antimicrotubule Agents *Eur J. Med. Chem.* (2011), 46, 6015-6024.
84. VIOLA G. Bortolozzi R., Hamel E., Moro S., Brun P., Castagliuolo I., Ferlin M.G., Basso G. MG-2477 a new tubulin inhibitor, induce autophagy through inhibition of the Akt/mTOR pathway and delayed apoptosis in A549 cells *Biochemical Pharmacology* (2012), 83, 16-26.
85. VIOLA G., Grobelny P., Linardi M.A., Salvador A., Dall'Acqua S., Sobotta L., Mielcarek J., Dall'Acqua F., Vedaldi D., Basso G. Pitavastatin a new HMG-CoA reductase inhibitor induces phototoxicity in human keratinocytes NCTC-2544 through the formation of benzophenanthridine-like photoproducts. *Archives of Toxicology* (2012), 86, 483-496.
86. Romagnoli, Baraldi P.G., Kimatrai Salvador M., Preti D., Tabrizi M.A., Brancale A., Xian-Hua Fu, Li J., Zhang S-Z., Hamel E., Bortolozzi R., Basso G., VIOLA G. Synthesis and Evaluation of 1,5-Disubstituted Tetrazoles as Rigid Analogues of Combretastatin A-4 with Potent Antiproliferative and Antitumor Activity *J. Med. Chem.* (2012), 55, 475-488.
87. Klionsky D.J. et al. Guidelines for the use and interpretation of assay for monitoring autophagy. *Autophagy* (2012) 8, 445-544.
88. Romagnoli R., Baraldi P.G., Kimatrai Salvador M., Preti D., Tabrizi M.A., Brancale A., Xian-Hua Fu, Jun Li, Su-Zhan Zhang R., Hamel E. Bortolozzi, Porcù E., Basso G., VIOLA G. Discovery and Optimisation of a Series of 2-Aryl-4-Amino-5-(3',4',5'-trimethoxybenzoyl)Thiazoles as Novel Anticancer Agents *J. Med. Chem.* (2012), 55, 5433-5445
89. Romagnoli R., Baraldi P.G., Kimatrai Salvador M., Encarnacion Camacho M., Preti D., Mojgan A.T., Bassetto M., Brancale A., R., Hamel E. Bortolozzi, Basso G., VIOLA G. Synthesis and Biological Evaluation of 2-Substituted-4-(3',4',5'-trimethoxyphenyl)-5-Aryl Thiazoles as Anticancer Agents. *Bioorg. Med. Chem.* (2012) 20, 7083-7094.

90. Accordi B., Galla L., Milani G., Curtarello M., VIOLA G., te Kronnie T., De Maria R., Petricoin E.F., Liotta L.A., Indraccolo S., G. Basso AMPK inhibition enhances apoptosis in MLL-rearranged pediatric B-acute lymphoblastic leukemia cells *Leukemia* (2013), 27, 1019-1027.
91. Porcù E., VIOLA G. Bortolozzi R., Persano L., Mitola S., Ronca R., Presta M., Romagnoli R., Baraldi P.G., Basso G. TR-644 a novel potent tubulin binding agent induce impairment of endothelial cells function and inhibits angiogenesis *Angiogenesis* (2013), 16, 647-662.
92. Persano L., Rampazzo E., Basso G., VIOLA G. Glioblastoma cancer stem cells: role of the microenvironment and therapeutic targeting. *Biochem Pharm* (2013), 85, 612-622.
93. Romagnoli R., Baraldi P.G., Lopez-Cara C., Kimatrai Salvador M., Preti D., Aghazadeh Tabrizi M., Bassetto M., Brancale A., Hamel E., Castagliuolo I., Bortolozzi R., Basso G., VIOLA G. Synthesis and Biological Evaluation of 2-Alkoxy carbonyl-3-Anilino Benzo[b]thiophenes and Thieno[2,3-b]Pyridines as New Potent Anticancer Agents. *J. Med. Chem.* (2013), 56, 2606-2618.
94. Ferlin M.G., Carta D., Bortolozzi R., Ghodsi R., Chimento A., Pezzi V., Moro S., Hanke N., Hartmann R.W., Basso G., VIOLA G. Design, synthesis and SARs of azolylmethyl-pyrroloquinolinones as non steroidal aromatase inhibitors. *J. Med.Chem.* (2013), 56, 7536-7551.
95. Bortolozzi R., Ihmels H., Thomas L., Tian M., VIOLA G. 9-(4-Dimethylaminophenyl)benzo[b]quinolizinium: a near-infrared fluorophore for the multicolour analysis of proteins and nucleic acids in living cells *Chem. Eur. J.* (2013), 19, 8736-8741.
96. Ausserlechner M.J., Salvador C., VIOLA G., Bortolozzi R., Basso G., Deutschmann A., Bodner M., Geiger K., Hagenbuchner J., Obexer P. Therapy resistant lymphoblastic leukemia (ALL) cells inactivate FOXO3 to escape apoptosis induction by TRAIL and Noxa. *Oncotarget* (2013), 4(7):995-1007.
97. Romagnoli, Baraldi P.G., Lopez-Cara C., Preti D., Aghazadeh Tabrizi M., Balzarini J., Bassetto M., Brancale A., Xian-Hua Fu, Yan Gao, Jun Li, Su-Zhan Zhang R., Hamel E. Bortolozzi R., Basso G., VIOLA G. Concise Synthesis and Biological Evaluation of 2-aryl-5-amino benzo[b]thiophene derivatives as a novel class of potent antimitotic agents. *J. Med. Chem.* (2013), 56, 9296-9309.
98. Lesma G., Sacchetti A., Silvani A, Bai R., Hamel E., Bortolozzi R., Basso G., VIOLA G. Hemiasterline analogues incorporating aromatic and heterocyclic type C-terminus: design, synthesis and cytotoxic evaluation. *Molecular Diversity* (2014), 18: 357-373.
99. Romagnoli, Baraldi P.G., Lopez-Cara C., Kimatrai Salvador M., Preti D., Aghazadeh Tabrizi M., Balzarini J., Nussbaumer P., Brancale A., Xian-Hua Fu, Jun Li, Su-Zhan Zhang R., Hamel E. Bortolozzi, Basso G., VIOLA G. Design, Synthesis and Biological Evaluation of 3,5-Disubstituted 2-Amino Thiophene Derivatives As a Novel Class of Antitumor Agents *Bioorg. Med. Chem.* (2014), 22(18): 5097-5109.
100. Bortolozzi R., VIOLA G., Porcù E., Consolaro F., Marzano C., Pelli M., Gandin V., Basso G. A novel copper(I) complex induces ER stress-mediated apoptosis and sensitizes B-acute lymphoblastic leukemia cells to chemotherapeutic agents. *Oncotarget* (2014), 5, 5978-5991.
101. Romagnoli R., Baraldi P.G., Kimatrai Salvador M., Khayah M., Preti D., Aghazadeh Tabrizi M., Hamel E., Consolaro F., Basso G., VIOLA G. Design, Synthesis and Biological Evaluation of

- Arylcinnamide Hybrid Derivatives as Novel Anticancer Agents. *Eur. J. Med. Chem.* (2014), 81, 394-407.
102. Cosimelli B., Laneri S., Ostacolo C., Sacchi A., Severi E., Porcù E., Rampazzo E., Moro E., Basso G., VIOLA G. Synthesis and biological evaluation of imidazo[1,2-a]pyrimidines and imidazo[1,2-a]pyridine as new inhibitors of the Wnt/ β -catenin signaling. *Eur. J. Med. Chem.* (2014), 83, 45-56.
103. Baytas S. N., Inceler N., Yilmaz A., Olgac A., Menevse S., Banoglu E., Hamel E., Bortolozzi R., VIOLA G. Synthesis, biological evaluation and molecular docking studies of *trans*-indole-3-acryl amide derivatives as tubulin polymerization inhibitors *Bioorg. Med. Chem.* (2014), 22, 3096-3104.
104. Bortolozzi R., von Gradowski S., Ihmels H., Schäfer K., VIOLA G. Selective Ratiometric Detection of H₂O₂ in Water and in Living Cells with Boronobenzo[*b*]quinolinium Derivatives *Chem. Comm.* (2014), 50, 8242-8245.
105. Porcù E., Sipos A. Basso G., Hamel E. Ruoli B., Stempfer V., Udvardy A., Bényei A.C., Schmidhammer H., Antus S., VIOLA G., Novel 9'-substituted-noscapines: synthesis with Suzuki cross-coupling, structure elucidation and biological evaluation. *Eur. J. Med. Chem.* (2014), 84, 476-490.
106. Romagnoli R., Baraldi P.G., Kimatrai Salvador M., Prencipe F., Bertolasi V., Cancellieri M., Brancal A., Hamel E., Castagliuolo I., Consolaro F., Porcù E., Basso G., VIOLA G. Synthesis, Antimitotic and Antivascular Activity of 1-(3',4',5'-Trimethoxybenzoyl)-3-Arylamino-5-Amino-1,2,4-Triazoles. *J. Med. Chem.* (2014), 57, 6795-6808.
107. Porcù E., Bortolozzi R., Basso G., VIOLA G. Recent advances on vascular disrupting agents *Future Med Chem* (2014), 6(13) 1485-1498.
108. Dall'Acqua F., Linardi M.A., Bortolozzi R., Clauser M., Marzocchini S., Maggi F., Nicoletti M., Innocenti G., Basso G., VIOLA G. Natural daucane esters induces apoptosis in leukemic cells through ROS production. *Phytochemistry.* (2014), 108, 147-156.
109. Aveic S., VIOLA G., Accordi B., Micalizzi C., Santoro N., Masetti R., Locatelli F., Basso G. Pigazzi M. BAG1 in childhood AML: the Achilles' heel of the anti-apoptotic network. *Experimental Hematology* (2015), 43, 180-190.
110. Castro-Navas F., Schiaffino-Ortega S. Carrasco-Jimenez M., Ríos-Marco P., Carmen Marco, Espinosa A., Gallo M.A., Basso G., Mariotto E., VIOLA G., Entrena A., López-Cara L.C. New More Polar Symmetrical Bipyridinic compounds: study of setting up a new scaffold for the inhibition of Choline Kinase α 1 (ChoK α 1). *Future Med Chem* (2015), 7, 417-436.
111. Romagnoli R., Baraldi P.G., Kimatrai Salvador M., Schiaffino Ortega S., Prencipe F., Andrea Brancal A., Hamel E., Castagliuolo I., Mitola S., Ronca R., Bortolozzi R., Porcù E., Basso G. VIOLA G. Design, Synthesis, in Vitro and in Vivo Anticancer and Antiangiogenic Activity of Novel 3-Arylamino Benzofuran Derivatives Targeting the Colchicine Site on Tubulin *J. Med. Chem.* (2015), 58, 3209-3222.

112. Consolaro F., Basso G., Ghaem-Magnani S., Lam W-F., VIOLA G. FOXM1 is overexpressed in B-acute lymphoblastic leukemia (B-ALL) and its inhibition sensitizes B-ALL cells to chemotherapeutic drugs. *Int. J. Oncology* (2015), 47, 1230-1240.
113. Consolaro F., Ghaem-Maghani S., Bortolozzi R., Zona S., Basso G., VIOLA G., Lam E. FOXO3a is involved in glucocorticoid (GC) sensitiveness in B-ALL through post translational modifications. *Mol. Canc. Res.* (2015), 13, 1578-1590.
114. Lesma G., Bassanini I., Bortolozzi R., Colletto C., Hamel E., Meneghetti F., Rainoldi G., Stucchi M., Sacchetti A., Silvani A. VIOLA G. Complementary isonitrile-based multicomponent reactions for the synthesis of diversified cytotoxic hemiasterlin analogues. *Org. Biomol. Chem.* (2015), 13, 11633-11644.
115. Carta D., Bortolozzi R., Hamel E., Moro S., Basso G., VIOLA G., Ferlin M.G. Novel 3-substituted 7-Phenylpyrroloquinolinones as Single Entities with Multitarget Antiproliferative Activity. *J. Med. Chem.* (2015), 58, 7991-8010.
116. Klionsky D.J. *et al.* Guidelines for the use and interpretation of assay for monitoring autophagy (3rd edition). *Autophagy* (2016) 12, 1-222.
117. E. Jortzik E., Zocher K., Isernhagen A., Mailu B., Rahlfs S., VIOLA G., Sergio Wittlin S., Hunt N.H., Ihmels H., Becker K. Acridizinium derivatives have a strong antimalarial activity and inhibit indoleamine dioxygenase. *Antimicrob. Agents Chemother.* (2016), 60, 115-126.
118. Schiaffino-Ortega S., Baglioni E., Serrán-Aguilera L., P. Ríos-Marco, Paz Carrasco-Jimenez M., Gallo M. A., Espinosa A., Marco C., Bortolozzi R., Basso G., Mariotto E., Hurtado-Guerrero R., VIOLA G., López-Cara L.C., Entrena A. Design, synthesis, crystallization and biological evaluation of new symmetrical biscationic compounds as selective inhibitors of human Choline Kinase $\alpha 1$ (ChoKa1). *Scientific Reports.* (2016) 6:23793.
119. Pithan P.M., Decker D., Suter Sardo M., VIOLA G., Ihmels H., Synthesis and Fluorosolvatochromism of 3-Arylnaphtho[1,2-*b*]quinolizinium derivatives. *Beilstein J. Org. Chem* (2016), 12, 854-862.
120. Porcù E., Salvador A., Primac I., Mitola S., Ronca R., Ravelli C., Bortolozzi R., Vedaldi D., Romagnoli R., Basso G., VIOLA G. evaluation of the antivasular effects on new combretastatin analogues *Vascular Pharmacology* (2016), 83, 78-89.
121. Lesma G., Luraghi A., Rainoldi G., Mattiuzzo E., Bortolozzi R., VIOLA G., Silvani A. Multicomponent Approach to Peptide-Ecdysteroid Conjugates: Creating Diversity at C6 by means of the Ugi Reaction *Synthesis* (2016) 48, 3907-3916.
122. Porcù E., Persano L., Ronca R., Mitola S., Bortolozzi R., Romagnoli R., Oliva P., Basso G., VIOLA G. The novel antitubulin agent TR-764 strongly reduce tumor vasculature and inhibits HIF-1 α activation *Scientific Reports* (2016) 6:27886
123. Romagnoli R., Baraldi P.G., Prencipe F., Lopez-Cara L.C., Ferla S., Brancale A., Hamel E., Ronca R., Bortolozzi R., Mariotto E., Basso G. VIOLA G. Design and synthesis of potent in vitro and in vivo anticancer agents based on 1-(3',4',5'-Trimethoxyphenyl)-2-Aryl-1*H*-Imidazole. *Scientific Reports.* (2016), 6:26602

124. Pomari E., Basso G., Bresolin S., Pillon M., Carraro E., D'Amore S.E., VIOLA G., Frasson C., Bonvini P., Mussolin L., NPM-ALK expression levels identify two distinct signatures in anaplastic large cell lymphoma of childhood. *Leukemia* (2017), 31, 498-501.
125. Carta D., Bortolozzi R., Sturlese M., Salmaso V., Hamel E., Basso G., Quintieri L., Moro S., VIOLA G., Ferlin M.G. Synthesis, structure-activity relationships and biological evaluation of 7-phenyl-pyrroloquinolinone 3-amide derivatives as potent antimitotic agents *Eur. J. Med. Chem.* (2017), 127, 643-660.
126. Schafer K., Ihmels H., Porcù E., VIOLA G. Control of the DNA-binding and DNA-damaging properties of hydroxybenzo[b]quinolizinium derivatives with pH and light *Chem. Eur. J.* (2017), 23, 370-379.
127. Hagenbuchner J., Lungkofler L., Kiechl-Kohlendorfer U., VIOLA G., Ferlin M.G. Ausserlechner M.J., Obexer P. The tubulin inhibitor MG-2477 induce autophagy-regulated cell death ROS accumulation and activation of FOXO3 in neuroblastoma. *Oncotarget*. (2017), 8 (19), 32009-32026.
128. Germano G, Morello G., Aveic S., Pinazza M., Minuzzo S., Frasson C., Persano L., Bonvini P., VIOLA G., Bresolin S., Tregnago C., Paganin M., Pigazzi M., Indraccolo S., Basso G. Zinc finger protein 521 overexpression is a feature of MLL-rearranged acute myeloid leukemia and contributes to the maintenance of myeloid differentiation block. *Oncotarget* (2017), 8 (16) 26129-26141.
129. Romagnoli R., Baraldi P.G., Prencipe F., Oliva P., Baraldi S., Kimatrai Salvador M., Lopez-Cara L.C., Bortolozzi R., Mattiuzzo E., Basso G., VIOLA G. Design, Synthesis and Biological Evaluation of 3-Substituted-2-Oxindole Hybrid Derivatives as Novel Anticancer Agents *Eur. J. Med. Chem.* (2017), 134, 258-270.
130. Romagnoli R., Baraldi P.G., Prencipe F., Oliva P., Baraldi S., Kimatrai Salvador M., Lopez Cara L.C., Brancale A., Ferla S., Ronca R., Bortolozzi R., Mariotto E., Porcù E., Basso G., VIOLA G. Synthesis and biological evaluation of 2-methyl-4,5-disubstituted oxazoles as a novel class of highly potent tubulin polymerization inhibitors. derivatives as novel anticancer agents. *Scientific Reports* (2017), 13;7:46356.
131. Russo R., Cimmino F., Pezone L., Manna F., Avitabile M., Langella C., Koster J., Casale F., Raia M., VIOLA G., Fisher M., Iolascon A., Capasso M. Kinome expression profiling of human neuroblastoma tumors identifies potential drug-targets for ultra-high risk patients. *Carcinogenesis* (2017), 38, 1011-1020.
132. Aveic S., Porcù E., Corallo D., Pantile M., VIOLA G., Sidarovich V., Quattrone A., Mariotto E., Boso D., Basso G., Zanon C., Tonini G.P. TP-0903 shows strong inhibitory effects on neuroblastoma cells' proliferation and their migratory potential. *Eur. J. Pharmacol.* (2018), 818, 435-448.
133. Romagnoli R, Kimatrai Salvador M., Baraldi P.G., Oliva P., Baraldi S., Lopez-Cara L.C., Brancale A., Ferla S., Hamel E., Jan Balzarini J., Liekens S., Mattiuzzo E., Basso G., VIOLA G. 2-Alkoxy carbonyl-3-aryl amino-5-substituted thiophenes as a novel class of antimicrotubule agents. Design, synthesis, cell growth and tubulin polymerization inhibition activity *Eur J. Med. Chem.* (2018), 143, 683-698.
134. Bortolozzi R. Mattiuzzo, Dal Prà M., Sturlese M., Moro S., Hamel E., Carta D., Basso G., VIOLA G., Ferlin M.G. Targeting tubulin polymerization by novel 7-aryl-pyrroloquinolinones: derivatives, synthesis, SARs and biological activity. *Eur J. Med. Chem.* (2018), 143, 244-258..

135. Bortolozzi R., Bresolin S., Rampazzo E., Paganin M., Maule F., Mariotto E., Boso D., Minuzzo S., VIOLA G., Indraccolo S., Cazzaniga G., Basso G., Persano L. AKR1C enzymes sustain therapy resistance in pediatric T-ALL. In press to *Br. J. Cancer*. (2018).
136. Bortolozzi R., Mattiuzzo E., Trentin L., Accordi B., Basso G., VIOLA G. Ribociclib, a CDK4/CDK6 kinase inhibitor, enhance glucocorticoid sensitivity in B-acute lymphoblastic leukemia (B-ALL). In press *Biochem Pharm.* (2018)

Book Chapters

1. Bruni A., Bellini F., Mietto L., Monastra G., VIOLA G. Toffano G. Target cells for serine phospholipids. In: *Neurochemical Aspects of Phospholipid Metabolism*. Edited by L. Freysz, J.N. Hawthorne and G. Toffano. Fidia Research Series, Vol. 20 Liviana Press, Padova pp.211-217 (1989). ISBN 88-7675-565-9
2. Bruni A., Bellini F., Mietto L., Boarato E., VIOLA G. Phospholipid absorption and diffusion through membrane. *Phospholipids: biochemical, pharmaceutical, and analytical considerations*. Eds. Hanin I., Pepeu G. Plenum Press, New York pp. 59-68 (1990).
3. Dall'Acqua F., VIOLA G. Cellular and molecular targets of psoralens (2001) In. *Photobiology for the 21st century* Thomas Coohill Ed. Valdenmar Publishing company Overland park, Kansas. pp 325-341. ISBN 0-9632105-5-6
4. Dall'Acqua F., Vedaldi D., Caffieri S., G. Miolo, VIOLA G., L. Levorato Farmaci fototossici: studio delle proprietà fototossiche e del meccanismo d'azione *Rapporti ISTISAN (Istituto Superiore di Sanità)* (2002), 02/42, 47-55. ISSN 1123-3117.
5. F. Dall'Acqua, G. VIOLA, D. Vedaldi Molecular basis of psoralen photochemotherapy (Chapter 142) in *CRC Handbook of Organic Photochemistry and Photobiology*. W.M. Hoorspool and F. Lenci Eds. CRC Press Boca Raton USA (2003), pp 1-17. ISBN 978-0-8493-1348-6
6. Ihmels H., Faulhaber K., VIOLA G. Evaluation of the DNA-binding properties of cationic dyes by absorption and emission spectroscopy. In: *Highlights in Bioorganic Chemistry: Methods and Applications* C. Schmuck and H. Wennemers Eds., (2004), pp172-187. Wiley VCH. ISBN 3-527-30656-0.
7. Gambari R., Lampronti I., Bianchi N., Zuccato C., VIOLA G., Vedaldi D., Dall'Acqua F. Structure and Biological Activity of Furocoumarin in *Topics in Heterocyclic chemistry* (Hertel M and Kollmar-Thowi B. Eds.) Springer Verlag, (2007) pp.265-276.
8. Persano L., Della Puppa A., Porcù E., Maule F., VIOLA G. Glioblastoma Cancer stem cells in: *Cancer Stem Cells: Emerging Concepts and Future Perspectives in Translational Oncology* (S. Babasha editor) Springer Verlag (2015). ISBN 978-3319210292.