

## List of publications

### LIST OF PUBLICATIONS

1. Bijnsdorp IV, Azijli K, Jansen EE, Wamelink MM, Jakobs C, Struys EA, Fukushima M, Peters GJ. Accumulation of thymidine-derived sugars in thymidine phosphorylase overexpressing cells, submitted to *Biochemical Pharmacology*
2. Bijnsdorp IV, Vrijland K, Vroling L, Fukushima M, Peters GJ. Increased migration by stimulation of thymidine phosphorylase in endothelial cells of different origin. *Nucleosides Nucleotides Nucleic Acids*, in press
3. Temmink OH, Bijnsdorp IV, Prins HJ, Losekoot N, Adema AD, Smid K, Honeywell RJ, Ylstra B, Eijk P, Fukushima M, Peters GJ. Trifluorothymidine resistance is associated with decreased thymidine kinase and equilibrative nucleoside transporter expression or increased secretory phospholipase A2. *Mol Cancer Ther* 2010;9:1047-1057.
4. Bijnsdorp IV, Schwendener RA, Schott H, Fichtner I, Smid K, Laan AC, Schott S, Losekoot N, Honeywell RJ, Peters GJ. Cellular pharmacology of multi- and duplex drugs consisting of ethynylcytidine and 5-fluoro-2'-deoxyuridine. *Invest New Drugs*, in press
5. Adema AD, Bijnsdorp IV, Sandvold ML, Verheul HM, Peters GJ. Innovations and opportunities to improve conventional (deoxy)nucleoside and fluoropyrimidine analogs in cancer. *Curr Med Chem*. 2009;16:4632-43. Review.
6. Bijnsdorp IV, Kruyt FA, Fukushima M, Smid K, Gokoel S, Peters GJ. Molecular mechanism underlying the synergistic interaction between trifluorothymidine and the epidermal growth factor receptor inhibitor erlotinib in human colorectal cancer cell lines. *Cancer Sci*. 2010;101:440-7.
7. Bijnsdorp IV, Peters GJ, Temmink OH, Fukushima M, Kruyt FA. Differential activation of cell death and autophagy results in an increased cytotoxic potential for trifluorothymidine compared to 5-fluorouracil in colon cancer cells. *Int J Cancer* 2009;126:2457-2468.
8. Bijnsdorp IV, Kruyt FA, Gokoel S, Fukushima M, Peters GJ. Synergistic interaction between trifluorothymidine and docetaxel is sequence dependent. *Cancer Sci*. 2008;99:2302-8.
9. Bijnsdorp IV, Kruyt FA, Fukushima M, Peters GJ. Trifluorothymidine induces cell death independently of p53. *Nucleosides Nucleotides Nucleic Acids* 2008;27:699-703.
10. Bijnsdorp IV, de Bruin M, Laan AC, Fukushima M, Peters GJ. The role of platelet-derived endothelial cell growth factor/thymidine phosphorylase in tumor behavior. *Nucleosides Nucleotides Nucleic Acids*. 2008;27:681-91. Review.
11. Bijnsdorp IV, Schwendener RA, Schott H, Fichtner I, Smid K, Schott S, Laan AC, Peters GJ. In vivo and in vitro activity and mechanism of action of the multidrug cytarabine-L-glycerilyl-fluorodeoxyuridine. *Nucleosides Nucleotides Nucleic Acids*. 2007;26:1619-24.
12. Bijnsdorp IV, Comijn EM, Padron JM, Gmeiner WH, Peters GJ. Mechanisms of action of FdUMP[10]: metabolite activation and thymidylate synthase inhibition. *Oncol Rep*. 2007;18:287-91.
13. Bijnsdorp IV, van den Berg J, Kuipers GK, Wedekind LE, Slotman BJ, van Rijn J, Lafleur MV, Sminia P. Radiosensitizing potential of the selective cyclooxygenase-2 (COX-2) inhibitor meloxicam on human glioma cells. *J Neurooncol*. 2007;85:25-31.
14. Bijnsdorp IV, Peters GJ. The hollow fiber assay. In: *Encyclopedia of Cancer*, 2<sup>nd</sup> edition (editor M. Schwab), Part 8, Springer Berlin Heidelberg, Germany. 2008; 1404-1406.
15. Bijnsdorp IV, Giovannetti E, Peters GJ. Analysis of drug interactions. In: *Cancer cell culture*. Chapter 4.25, Humana press Inc. 2010, in press
16. Bijnsdorp IV, Peters GJ. Thymidine phosphorylase gene. In: *The Atlas of Genetics and Cytogenetics in Oncology and Haematology*, 2010

**SUBMITTED FOR PUBLICATION AND IN PREPARATION**

1. Bijnsdorp IV, Capriotti F, Kruyt FAE, Losekoot N, Fukushima M, Griffioen AW, Thijssen VL, Peters GJ. Thymidine phosphorylase in cancer cells stimulates human endothelial cell migration and invasion by increasing the secretion of angiogenic factors, *submitted*
2. Azijli K, Bijnsdorp IV, Smit J, de Jong S, Fukushima M, Peters GJ, Kruyt FAE. Synergistic interaction between trifluorothymidine and TNF-related apoptosis inducing ligand in non small cell lung cancer cells *in vitro*, *in preparation*
3. Bijnsdorp IV, de Bruin M, Fukushima M, Peters GJ. Thymidine and deoxyribose protect against rapamycin induced cytotoxicity by inducing autophagy in colorectal cancer cells *in vitro*, *in preparation*

**CONFERENCE PROCEEDINGS**

1. Bijnsdorp IV, Kruyt FA, Fukushima M, Peters GJ. Molecular mechanism underlying synergism between trifluorothymidine and the epidermal growth factor receptor inhibitor erlotinib in human colon cancer cells. Proceedings of the 13<sup>th</sup> international symposium on Purine and Pyrimidine Metabolism in Man, Stockholm, Sweden, 2009
2. Bijnsdorp IV, Kruyt FA, Fukushima M, Peters GJ. Molecular mechanism of thymidine phosphorylase mediated induction of angiogenesis. Proceedings of the 13<sup>th</sup> international symposium on Purine and Pyrimidine Metabolism in Man, Stockholm, Sweden, 2009
3. Bijnsdorp IV, Kruyt FA, Fukushima M, Peters GJ. Differential activation of cell death and autophagy by trifluorothymidine compared to 5-fluorouracil. Proceedings of the 100<sup>th</sup> Annual meeting of the American Association for Cancer Research (AACR), Denver, USA, Volume 50, abstract #1508, 2009
4. Bijnsdorp IV, Kruyt FA, Fukushima M, Peters GJ. Trifluorothymidine induces cell death by another pathway than 5-fluorouracil. Proceedings of the 99<sup>th</sup> Annual meeting of the American Association for Cancer Research (AACR), San Diego, USA, Volume 49, abstract #3336, 2008
5. Bijnsdorp IV, Kruyt FA, Fukushima M, Peters GJ. Molecular mechanism of thymidine phosphorylase inhibition on cell migration. Proceedings of the 29<sup>th</sup> winter meeting of the EORTC-PAMM group, Palermo, Italy, 2008
6. Bijnsdorp IV, Kruyt FA, Fukushima M, Peters GJ. Trifluorothymidine induces cell death by both caspase activation and caspase independently. Proceedings of the 12<sup>th</sup> international symposium on Purine and Pyrimidine Metabolism in Man, Chicago, USA, 2007
7. Bijnsdorp IV, Kruyt FA, Gokoel S, Fukushima M, , Peters GJ. Combination of trifluorothymidine with docetaxel in human colon carcinoma *in vitro*. Proceedings of the 98<sup>th</sup> Annual meeting of the American Association for Cancer Research (AACR), Los Angeles, USA, Volume 48, abstract # 4764, 2007
8. Bijnsdorp IV, Peters GJ, Gokoel S, Fukushima M, Kruyt FA. Mechanism of cell death induced by trifluorothymidine in human coloncarcinoma cell lines. Proceedings of the 28<sup>th</sup> winter meeting of the EORTC-PAMM group, Berlin, Germany, 2007
9. Bijnsdorp IV, Schwenderer RA, Schott H, Fichtner I, Laan AC, Peters GJ. *In vitro* activity and mechanism of action of multidrugs. Proceedings of the 27<sup>th</sup> winter meeting of the EORTC-PAMM group, Edinburgh, Scotland, 2006