

JESSICA MARINELLO

PERSONAL DATA

Date of birth: December 14th, 1980
Place of birth: Pieve di Cadore – Belluno - Italy
Nationality: Italian
Address: Via Giulio Giordani, 17 – 40033 Casalecchio di Reno – Bologna – Italy
Phone number: +39 349 2890300
E-mail: jessica.marinello@unibo.it

EDUCATION

- March 18th 2009 - PhD in Pharmaceutical Sciences (PhD School in Molecular Sciences, University of Padova, Italy).
- July 5th 2005 - Graduation in Chemistry and Pharmaceutical Technology, University of Padova, Italy.

RESEARCH EXPERIENCE

- *Actual Position (from August 2014):* Research Assistant Professor at Department of Pharmacy and Biotechnology, University of Bologna.
- *Feb 2009 – July 2014:* Post-Doctoral fellow at Laboratory of Molecular Biology of Prof. Capranico Giovanni (Department of Pharmacy and Biotechnology - University of Bologna). Research was addressed to the genome-wide study of transcriptional stress induced by Top1 inhibitors and its implication in the drugs' anti-tumor activity.
- *Sept 2007 - Oct 2008:* PhD Student at National Institute of Health, National Cancer Institute branch, Bethesda, Maryland, USA, under the supervision of Yves Pommier, MD, PhD. Research was addressed to the study of HIV-1 Integrase and on the comparison of Raltegravir and Elvitegravir on a series of drug-resistant integrase mutants.
- *Jan 2006 - Aug 2007:* PhD Student at Department of Pharmaceutical Sciences, University of Padova – Italy, under the supervision of Prof. Barbara Gatto. Research was addressed to the selection of RNA aptamers against Folic Acid.
- *Sept 2005 - Dec 2005:* Post-Lauream Fellow at Department of Biomedical Sciences University of Padova – Italy, under the supervision of Cristina Fasolato, PhD. Research was address to the study of the connection between Tau mutations, responsible of FTDP-17, and mutations of intracellular calcium concentration.
- *May 2004 - July 2005:* Graduating student at Department of Biomedical Sciences, University of Padova – Italy, under the supervision of Cristina Fasolato, PhD. Research was addressed to the study of Alzheimer's disease and in particular of the effect of presenilins' mutations on the intracellular homeostasis of calcium in SH-SY5Y cell line.

PUBLICATIONS

1. Capranico G, Marinello J, Chillemi G (2017) Type I DNA Topoisomerases. *J Med Chem* Jan 24.
2. Amato J, Pagano A, Cosconati S, Amendola G, Fotticchia I, Iaccarino N, Marinello J, De Magis A, Capranico G, Novellino E, Pagano B, Randazzo A. (2016) Discovery of the first dual G-triplex/G-quadruplex stabilizing compound: a new opportunity in the targeting of G-rich DNA structures? *Biochim Biophys Acta* Nov 9.
3. Marinello J, Bertoncini S, Aloisi I, Cristini A, Malagoli Tagliazucchi G, Forcato M, Sordet O, Capranico G. (2016) Dynamic Effects of Topoisomerase I Inhibition on R-Loops and Short Transcripts at Active Promoters. *PLoS One* **11**(1).
4. Drwal MN, Marinello J, Manzo SG, Wakelin LP, Capranico G, Griffith R. (2014) Novel DNA topoisomerase II α inhibitors from combined ligand- and structure-based virtual screening. *PLoS One* **9**(12)
5. Bertozzi D*, Marinello J*, Manzo SG, Fornari F, Gramantieri L, Capranico G (2014) The Natural Inhibitor of DNA Topoisomerase I, Camptothecin, Modulates HIF-1 α Activity by Changing miR Expression Patterns in Human Cancer Cells. *Mol Cancer Ther* **13**(1): 239-248. (* shared first authorship).

6. Marinello J, Chillemi G, Bueno S, Manzo SG, Capranico G (2013) Antisense transcripts enhanced by camptothecin at divergent CpG-island promoters associated with bursts of topoisomerase I-DNA cleavage complex and R-loop formation. *Nucleic Acids Res* **41**(22): 10110-10123.
7. Petronzi C, Festa M, Peduto A, Castellano M, Marinello J, Massa A, Capasso A, Capranico G, La Gatta A, De Rosa M, Caraglia M, Filosa R (2013) Cyclohexa-2,5-diene-1,4-dione-based antiproliferative agents: design, synthesis, and cytotoxic evaluation. *J Exp Clin Cancer Res* **32**: 24.
8. Manzo SG, Zhou ZL, Wang YQ, Marinello J, He JX, Li YC, Ding J, Capranico G, Miao ZH (2012) Natural product triptolide mediates cancer cell death by triggering CDK7-dependent degradation of RNA polymerase II. *Cancer Res* **72**(20): 5363-5373.
9. Fornari F, Milazzo M, Chieco P, Negrini M, Marasco E, Capranico G, Mantovani V, Marinello J, Sabbioni S, Callegari E, Cescon M, Ravaoli M, Croce CM, Bolondi L, Gramantieri L (2012) In hepatocellular carcinoma miR-519d is up-regulated by p53 and DNA hypomethylation and targets CDKN1A/p21, PTEN, AKT3 and TIMP2. *J Pathol* **227**(3): 275-285.
10. Capranico G, Baranello L, Bertozzi D, Marinello J (2012) Transcriptional stress by camptothecin: mechanisms and implications for the drug antitumor activity. In *DNA Topoisomerases and Cancer*, Pommier Y (ed), 14, pp 309-324. Humana Press.
11. Bertozzi D, Iurlaro R, Sordet O, Marinello J, Zaffaroni N, Capranico G (2011) Characterization of novel antisense HIF-1alpha transcripts in human cancers. *Cell Cycle* **10**(18): 3189-3197.
12. Ricci A, Marinello J, Bortolus M, Sanchez A, Grandas A, Pedroso E, Pommier Y, Capranico G, Maniero AL, Zagotto G (2011) Electron paramagnetic resonance (EPR) study of spin-labeled camptothecin derivatives: a different look of the ternary complex. *J Med Chem* **54**(4): 1003-1009.
13. Capranico G, Marinello J, Baranello L (2010) Dissecting the transcriptional functions of human DNA topoisomerase I by selective inhibitors: implications for physiological and therapeutic modulation of enzyme activity. *Biochim Biophys Acta* **1806**(2): 240-250.
14. Tumiatti V, Milelli A, Minarini A, Micco M, Gasperi Campani A, Roncuzzi L, Baiocchi D, Marinello J, Capranico G, Zini M, Stefanelli C, Melchiorre C (2009) Design, synthesis, and biological evaluation of substituted naphthalene imides and diimides as anticancer agent. *J Med Chem* **52**(23): 7873-7877.
15. Marinello J, Marchand C, Mott BT, Bain A, Thomas CJ, Pommier Y (2008) Comparison of raltegravir and elvitegravir on HIV-1 integrase catalytic reactions and on a series of drug-resistant integrase mutants. *Biochemistry* **47**(36): 9345-9354.