

Marina Tanasova, Ph.D.

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Position:

2013-current: Assistant Professor, Chemistry Department, Michigan Technological University, MI, USA

Education:

2002-2008: Graduate Research Assistant, Department of Chemistry, Michigan State University, MI, USA,

1996-1998: M.Sc., Organic Chemistry, Georgian Technical University, Rep. of Georgia, USSR

1992-1996: B.Sc. Chemistry, Georgian Technical University, Rep. of Georgia, USSR

Professional Experience:

2013-present Assistant Professor of Chemistry, Michigan Technological University Post-Doctoral

2010-2013 Postdoctoral Fellow, ETH Zurich, Switzerland

2009-2010 Post-Doctoral Research Associate, University of Minnesota

1998-2002 *Research Associate, Georgian Technical University, Rep. of Georgia*

Awards:

2010-2013 Susan G. Komen for the Cure Postdoctoral Fellowship: "Breast Cancer Therapy by Tumor-Specific DNA-Repair Inhibitors"

Professional Affiliations:

2002-current American Chemical Society

2011-current Georgian Chemical Society

Publications: (*, corresponding author; #, undergraduate student)

Weseliński, Ł., Grillo, M., # Tanasova, M.* "The practical stereocontrolled synthesis of vicinal halohydrins and haloamines from vinyl epoxides and vinyl aziridines", *Tet. Lett*, **2016**, 57, 4477-4479

Malvezzi, S.; Sturla, S. J.; Tanasova, M.* "Quantification of Inorganic Pyrophosphate as a Universal Approach to Screening Translesion Synthesis Polymerase Inhibitors", *Anal. Biochem.* **2015**, 478, 1-7.

Tanasova, M.; Goeldi, S.; Meyer, F.; Spivak, G.; Hanawalt, P. C. Sturla, S. J.* "Altered Minor-Groove Hydrogen Bonds in DNA Block Transcription Elongation by T7 RNA Polymerase" *ChemBioChem*, **2015**, 16, 1125-1146.

Tanasova, M.; Borhan, B.* "Sensing Remote Chirality: Stereochemical Determination of β - and γ -Chiral Carboxylic Acids", *Angew. Chem. Int. Ed.* **2015**, 14, 4274-4278.

Tanasova, M.; Muroski, M.; Plutschack, M.; Sturla, S. J.; Strouse, G.; McQuade, T.* "Fluorescent THF-Based Fructose Analog Exhibits Fructose Dependent Uptake", *ChemBioChem*, **2013**, 14, 1263-1270.

Tanasova, M.; Sturla, S. J.* "Chemistry and Biology of Acylfulvenes." *Chem. Rev.* **2012**, *112*, 3578–3610.

Tanasova, M.; Borhan, B.* "Conformational Preference in Bis-Porphyrin Tweezers Complexes: A Versatile Chirality Sensors for α -Chiral Carboxylic Acids" *Eur. J. Chem.* **2012**, *17*, 3261-3269.

Tanasova, M.; Yang, Q.; Olmsted, C.; Li, X.; Vasileiou, C.; Borhan, B.* "An Unusual Conformation of α -Haloamides due to Cooperative Binding with Zincated Porphyrins." *Eur. J. Org. Chem.* **2009**, *25*, 4242-4253.

Tanasova, M.; Vasileiou, C.; Olumolade, O.; Borhan, B.* "Enhancement of Exciton Coupled Circular Dichroism with Sterically Encumbered Bis-Porphyrin Tweezers." *Chirality*, **2009**, *21*, 374-382.

Li, X.; Tanasova, M.; Vasileiou, C.; Borhan, B.* "Fluorinated Porphyrin Tweezer: A Powerful Reporter of Absolute Configuration for *erythro* and *threo* Diols, Amino Alcohols, and Diamines" *J. Am. Chem. Soc.* **2008**, *130*, 1885-1893.

Lu, Y.; Tanasova, M.; Borhan, B.; Reid, G. "Ionic Reagents for Controlling the Gas-Phase Fragmentation Reactions of Cross-Linked Peptides" *Anal. Chem.* **2008**, *80*, 9279-9287.

Invited Talks:

August 2014 Yong Investigator Award Symposium, Chemical Toxicology, 248-th ACS National Meeting, San Francisco, CA, August 10-14, 2014; Title: "Chemistry of DNA stability and transcription".

April 2014 University of Minnesota, Institute for Therapeutic Discovery and Development Seminar Speaker, April 4, 2014; Title: "Chemistry of DNA stability and transcription. Towards Polymerase Inhibitors."

Poster Presentations (since in Michigan Tech):

- Fedie, J. R. Xia, S. Tanasova, M. "Exploiting Overactive Fructose Transporters for Selective Targeting in MCF-7 Human Breast Carcinomas" Upper Peninsula - NE Wisconsin ACS Student Research Symposium, April 2, 2016
- Fedie, J. R. Xia, S. Tanasova, M. "Exploiting Overactive Fructose Transporters for Selective Targeting in MCF-7 Human Breast Carcinomas" LSTI Research Forum, MTU, October 5, 2016

Synergistic Activities:

Reviewer: ChemBioChem, ChemMedChem (Willey), Scientific Reports (Nature Publishing Group), Analytical Biochemistry, Bioorganic and Medicinal Chemistry (Elsevier)

Proposal Refereeing: MTU Summer Research Fellowship (SURF) proposals (2014, 2016)

Member of Departmental "Graduate Program" (current)

Member of Departmental "Graduate Program Admission Committee" (2014-2016)

Member of Graduate Award Committee

Judge – Life Science and Technology Institute Graduate Research Forum (2014-2016)

Speaker – CH2130 Professional Development Class (FS2016)

Meetings and lab tours with Prospective Student (2014-2016)

Teaching:

Spectroscopy of Organic Chemistry; Intermediate Organic Chemistry; Advanced Organic Chemistry; Pharmaceutical Analysis