

Martyna Maszota-Zieleniak

Research experience and academic degrees:

From 10.2019: Postdoctoral researcher at Faculty of Chemistry, University of Gdańsk, Poland
NCN Sonata BIS 8 project: Modeling of glycosaminoglycan-induced formation of protein structure and enhancement of biologically relevant protein-ligand interactions.

02.2011 - 05.2011: Research internship in the LLP-Erasmus program at the National Institute of Chemistry, Slovenian NMR Centre, Ljubljana, Slovenia

10.2008 - 12.2017: PhD in Chemistry, Faculty of Chemistry, University of Gdańsk, Poland

06.2008: Master Degree in Environmental Science, Faculty of Chemistry, University of Gdańsk, Poland

Grants and Awards:

1. Head in PRELUDIUM 2 grant from National Science Center (Poland). Project: Solution NMR investigations of human cystatin C - structure, dynamics and protein-ligand interactions.
2. Employee in SONATA BIS 1 grant from National Science Center (Poland). Project: Molecular characteristics of the human cystatin C complex with natural auto-antibodies.
3. Employee in Polish-Swiss Research Programme. Project: Design of BTLA protein inhibitors as new anti-melanoma drugs.
4. Scholarship financed by the European Social Fund, "We educate the best - a comprehensive development program of doctoral students, young doctors and academic teaching staff of the University of Gdańsk" (01/02/2013 - 31/01/2014)

Publications:

1. M. Spodzieja, K. Kuncewicz, A. Sieradzan, A. Karczyńska, J. Iwaszkiewicz, V. Cesson, K. Węgrzyn, I. Zhukov, M. Maszota-Zieleniak, O. Michielin, D.E. Speiser, V. Zoete, L. Derré, S. Rodziewicz-Motowidło, Disulfide-Linked Peptides for Blocking BTLA/HVEM Binding. *Int. J. Mol. Sci.* 2020, 21, 636.
2. M. Maszota-Zieleniak, P. Jurcak, M. Orlikowska, I. Zhukov, D. Borek, Z. Otwinowski, P. Skowron, Z. Pietralik, M. Kozak, A. Szymańska, S. Rodziewicz-Motowidło „NMR and crystallographic structural studies of extremely stable monomeric variant of human cystatin C with single amino acid substitution, *The FEBS Journal* 287.2 (2020): 361-376.
3. M. Chrabąszczewska, M. Maszota-Zieleniak, Z. Pietralik, M. Taube, S. Rodziewicz-Motowidło, A. Szymańska, K. Szutkowski, D. Clemens, A. Grubb, M. Kozak „Cyclic trimer of human cystatin C, an amyloidogenic protein – molecular dynamics and experimental studies”, *Journal of Applied Physic*, 2018, 123:17

4. M. Spodzieja, K. Kalejta, A.S. Kołodziejczyk, M. Maszota-Zieleniak, S. Rodziewicz-Motowidło, W. Żmudzińska, P. Czaplewska, 'Characteristics of C-terminal, β -amyloid peptide binding fragment of neuroprotective protease inhibitor, cystatin C', Journal of Molecular Recognition vol. 30, pp. 2581, 2017
5. M. Maszota N. Karska, M. Spodzieja, J. Ciarkowski, A. Kołodziejczyk, S. Rodziewicz-Motowidło, P. Czaplewska: „Structural studies of the C-terminal 19-peptide of serum amyloid A and its Pro->Ala variants interacting with human cystatin C”, Journal of Molecular Recognition, 2015, 28:413-426
6. P. Jurczak, M. Maszota-Zieleniak: „NMR studies of human cystatin C : stable isotope labeling of human cystatin C”, TASK Quarterly, 2014, 18:327-330
7. M. Spodzieja, A. Szymańska, A. Kołodziejczyk, M. Prądyńska, M. Maszota, P. Stefanowicz, Z. Szewczuk, A. Grubb, P. Czaplewska: „Interaction of serum amyloid A with human cystatin C-identification of binding sites”, Journal of Molecular Recognition, 2012, 10:513-524

Languages:

Polish (native), English (fluent)