KUL Doctoral School
The John Paul II Catholic University of Lublin
Al. Raclawickie 14
20-950 Lublin, Poland

Potential Supervisor at the KUL Doctoral School

Research profile	
Name, surname, postdoctoral degree or a professor degree in a discipline	Anna Rymuszka, Ph.D
Scientific discipline: (according to disciplines offered by the KUL Doctoral School)	biological sciences
Research profile: www address, Research Gate profile or Academia.edu profile	www.researchgate.net/profile/Anna-Rymuszka
Research interests (areas of scientific research currently conducted)	Immunology, immunotoxicology, molecular toxicology, primary and secondary cell cultures, cytophysiology, cytotoxicity of xenobiotics (e.g. drugs, pesticides, heavy methals, nanoparticles), biologically active compounds, biologically active substances of various origins, probiotic bacteria, fermented food of plant origin
Three most important publications within four calendar years **(2019-2022)**	1. Sierosławska A., Borówka A., Rymuszka A., Żukociński G., Sobczak K., 2021. Mesoporous silica nanoparticles containing copper or silver synthesized with a new metal source: Determination of their structure parameters and cytotoxic and irritating effects. Toxicology and Applied Pharmacology, 429, 115685, https://doi.org/10.1016/j.taap.2021.115685 2. Rymuszka, A., Sieroslawska, A., Adaszek, Ł., 2021. Cytotoxic and immunological responses of fish leukocytes to nodularin exposure in vitro. Journal of Applied Toxicology, 41(10), 1660-1672; DOI: 10.1002/jat.4154 3. Sieroslawska, A., Rymuszka, A., 2019. Assessment of the cytotoxic impact of cyanotoxinbeta-N-methylamino-L-alanine on a fish immune cell line. Aquatic Toxicology, 212, 214-221, https://doi.org/10.1016/j.aquatox.2019.05.012
Successful research grant applications at least at a nationwide level (max.6 grants):	2019/2020; MNiSW/2019/161/DIR, project "Silica nanomaterials with copper and silver as safe carriers of bioactive substances" as part of the "Innovation Incubator 2.0" implemented by the consortium of Maria Curie-Skłodowska University in Lublin, The John Paul II Catholic University of Lublin, Medical University of Lublin and Creative Sp. Z oo ; 2011/2013, Grant No. N N304 306940, NCN), "Biological evaluation of a cyanobacterial bloom toxicity in selected

	water reservoirs of Lubelszczyzna" ; 2010/2012, Grant No. N N303606138, MNiSW, "Cytotoxic influence of selected cyanotoxins (microcystin-LR and anatoxin-a) on carp (Cyprinus carpio L.) immune cells" ; 2007/2009 Research project (Grant No. N 308027 32/2393, MNiSW) "Influence of cyanotoxins (microcystin-LR and anatoxin-a) on the immune system of carp (Cyprinus carpio L.)"
principal investigator	2019/2020; MNiSW/2019/161/DIR, project "Silica nanomaterials with copper and silver as safe carriers of bioactive substances" as part of the "Innovation Incubator 2.0" implemented by the consortium of Maria Curie-Skłodowska University in Lublin, The John Paul II Catholic University of Lublin ; 2010/2012, Grant No. N N303606138, MNiSW, "Cytotoxic influence of selected cyanotoxins (microcystin-LR and anatoxin-a) on carp (Cyprinus carpio L.) immune cells"; 2011/2013, Grant No. N N304 306940, NCN), "Biological evaluation of a cyanobacterial bloom toxicity in selected water reservoirs of Lubelszczyzna" ; 2007/2009 Research project (Grant No. N 308027 32/2393, MNiSW) "Influence of cyanotoxins (microcystin-LR and anatoxin-a) on the immune system of carp (Cyprinus carpio L.)"
investigator	
Experience in PhD supervision	
Number of PhD already promoted	-
Number of currently supervised PhD students	-
Number of currently supervised PhD students before opening doctoral dissertation/program	-
Number of currently supervised PhD students at the KUL Doctoral School	-
Offer and requirements for candidates	
Potential PhD project topics which the supervisor would like to supervise	Multi-aspect assessment of potential toxic effects of different xenobiotics (e.g. nanomaterials, pesticides, heavy metals, drugs) Research on the immunotoxic and immunomodulating potential of biologically active substances at the cellular

	and molecular level Research on the health-promoting properties of biologically active substances Evaluation of the influence of food processing on the content of biologically active substances
Number of PhD students the supervisor would like to supervise	1
Requirements for candidates (e.g., research interests; current achievements; scientific, social or linguistic competences)	willingness to deepen knowledge and acquire practical skills in a research laboratory, teamwork skills, English language skills at a level of at least B2
Place for PhD individual work offered (e.g., laboratory, common room)	Research laboratories and workrooms at the Institute of Biological Sciences KUL
Fundings for PhD research offered (e.g., grant)	Apply for research grants at least at the national level
Contact (e-mail, link to the Teams meatings)	e-mail: anrym@kul.pl