



**EWA ŁUCJA STĘPIEŃ Ph.D.** Associate Professor in Faculty of Physics, Astronomy and Applied Informatics at Jagiellonian University, clinical consultant in laboratory genetics in the Holycross Cancer Center in Kielce (H-index: 13, summary IF: 200, citations: 524) *for 10 years a manager of the Laboratory for Molecular Biology and Research in John Paul II Hospital (Krakow)*. **Field of interest**

- Endothelial dysfunction caused by stress factors such as hypoxia, infections or hyperglycemia;
- New biomarkers of vascular diseases, mostly atherosclerosis, with the focus on intercellular communication (microparticles) and proinflammatory mediators or endothelium protective proteins, including osteopontin (OPN) and osteoprotegerin (OPG)

§ scientific achievements 1) Czyżewska-Buczyńska A, Zuk N, Karczewski M, Bałasz S, Grendziak R, Zapotoczny N, **Stępień E**, et al. Plasma osteoprotegerin levels are determined by primary cardiovascular events in late middle-aged but not in young elderly male subjects. *Int J Cardiol.* 2014;173(3):507-9. IF: **6.18**, citations: **0**; 2) Paszek E, Czyż J, Woźnicka O, Jakubiak D, Wojnarowicz J, Łojkowski W, **Stępień E**. Zinc oxide nanoparticles impair the integrity of human umbilical vein endothelial cell monolayer in vitro. *J Biomed Nanotechnol.* 2012;8(6):957-67. IF: **7.58**, citations: **14**; 3) **Stępień E** et al. Microparticles, not only markers but also a therapeutic target in the early stage of diabetic retinopathy and vascular aging. *Expert Opin Ther Targets.* 2012;16(7):677-88. IF: **3.72**, citations: **5**; § experience in research projects and R&D projects Principal Investigator/Project Manager: The role of microparticles in pathomechanisms of diabetic retinopathy - analysis of intercellular communication mechanisms in endothelial aging; Project ID: 2012/07/B/NZ5/02510; co-author of project: Interdisciplinary center for the new technics and biomedical imaging (IOITOB) as a proposal 2.2 Support for developing common research infrastructure to scientific institutions, Operating Program for John Paul II Hospital in Krakow, Innovative Economy 2007-2013. § other achievements - including prestigious prizes 1) Individual Jagiellonian University Rector's award (2009); 2) 2nd Award by Polish Ministry of Health and Social Security "Evidence Based Medicine in practice" (2007).