

PROFILE FOR INSTITUTE WEBSITE

Current photo in graphic file e.g. 2024, 2023.	
Name and surname, Title	Magdalena Ogłuszka, PhD
Position	Assistant professor
Hirsch Index and Number of citations (according to Scopus) on the day of completing the form	Hirsch Index: 10 Number of citations: 437
Research areas (in points, min. 200 characters, max. 500 characters)	– The influence of omega-3 polyunsaturated fatty acids on metabolism and their ability to prevent or alleviate the course of civilization diseases. – The role of omega-3 fatty acids in the aging process, especially telomere shortening. – Interactions of omega-3 acids with iron metabolism.
Total number of completed research projects; currently implemented research projects (title and number) and selected max. 3 completed projects (title and number) from the newest ones, i.e. 2024, 2023, 2022...	– Research grant from the NUTRICIA Foundation – “Impact of omega-3 and omega-6 fatty acids contained in plant oil on telomere biology in porcine muscle tissue in-vivo studies and rat muscle cell in-vitro studies”, 2016-2019; RG 2/2016 – Grant in the Preludium 9 competition organized by the National Science Center - " Effect of omega-6 and omega-3 fatty acids on telomere length and the level of shelterin proteins in a murine model.", 2016-2019; 2015/17/N/NZ9/01105
Total number of publications; ORCID (number and hyperlink to the profile); SCOPUS (number and hyperlink to the profile); indicate selected publications (max. 5)	– Total number of publications: 18 – ORCID: 0000-0001-6226-4114; https://orcid.org/0000-0001-6226-4114 – SCOPUS: 56968155500; https://www.scopus.com/authid/detail.uri?authorId=56968155500&eid=2-s2.0-85020026846 – Ogłuszka M., Szostak A., Te Pas M.F., Poławska E., Urbański P., Juszczuk-Kubiak E., Blicharski T., Pareek C.S., Dunkelberger J.R., Horbańczuk J.O., Pierzchała M., A porcine gluteus medius muscle genome wide transcriptome analysis: dietary effects of omega-6 and omega-3 fatty acids on biological mechanisms (2017), Genes and Nutrition, 31; 12:4; DOI 10.1186/s12263-017-0552-8

	– Ogłuszka M., Lipiński P., Starzyński R.R., Interaction between iron and omega-3 fatty acids metabolisms: where is the crosslink? (2022), Critical Reviews in Food Science and Nutrition, 62(11):3002-3022; DOI 10.1080/10408398.2020.1862047 – Ogłuszka M., Te Pas M.F.W., Poławska E., Nawrocka A., Stepanow K., Pierzchała M., Omega-3 alpha-linolenic fatty acid affects the level of telomere binding protein trf1 in porcine skeletal muscle (2021), Animals, (6), 1090, 1-12; DOI 10.3390/ani10061090 – Ogłuszka M., Lipiński P., Starzyński R.R., Effect of Omega-3 Fatty Acids on Telomeres—Are They the Elixir of Youth? (2022), Nutrients, 14(18):3723 – Liput K.P., Lepczyński A., Nawrocka A., Poławska E., Ogłuszka M., Jończy A., Grzybek W., Liput M., Szostak A., Urbański P., Roszczyk A., Pareek C.S., Pierzchała M., Effects of Three-Month Administration of High-Saturated Fat Diet and High-Polyunsaturated Fat Diets with Different Linoleic Acid (LA, C18:2n–6) to α-Linolenic Acid (ALA, C18:3n–3) Ratio on the Mouse Liver Proteome (2021), Nutrients, 13(5), 1678; DOI 10.3390/nu13051678 –
Total number of patents; selected patents (max. 2) and a hyperlink to personal patent achievements (UP RP), on the day of completing the form	–
Selected scientific achievements from the newest, i.e. 2023, 2022, 2021... (in points, min. 800 characters, max. 1000 characters)	– Greatest scientific achievement are the research results obtained in cooperation with Laboratory for Lipid Medicine and Technology under the direction of Prof. Jing X. Kang at Harvard University. I undergone six months post-doc studies at University in 2018. During the post and previous stay in Boston I conducted studies on impact of omega-3 fatty acids on aging, especially telomere biology using transgenic fat-1 mice as a model. We obtained valuable results which provides great contribution to knowledge of the impact of omega-3 polyunsaturated fatty acid on aging and the role of shelterin in this process. The research was carried out as part of the grant " Effect of omega-6 and omega-3 fatty acids on telomere length and the level of shelterin proteins in a murine model." financed by the National Science Center.
Number and list of defended PhD students from the latest, i.e. 2024, 2023, 2022...	–
Organizational activities, dissemination of knowledge and others (in points, min. 300 characters, max. 1000 characters)	–