

PROFILE FOR INSTITUTE WEBSITE

Current photo in graphic file e.g. 2024, 2023.	
Name and surname, Title	Agnieszka Wierzbicka, habilitated doctor, professor, corresponding member of the Polish Academy of Sciences
Position	Professor
Hirsch Index and Number of citations (according to Scopus) on the day of completing the form	H index - 29, number of citations - 2,689
Research areas (in points, min. 200 characters, max. 500 characters)	– Designing health-promoting properties of food that meet the health expectations of people suffering from metabolic syndrome – Improving the quality and nutritional value of food with extended shelf life – Food production quality systems and their impact on the biological value of food
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...	– 13 projects (5 project manager, 8 scientific participant in the project) – 2020 – 2023 Innovative functional food fats with increased nutritional, health-promoting ... systems, project no.: POIR.01.01.01-00-1066/19 – 2018 – 2021 - "Development and implementation of a technology ... with controlled allergenicity"; POIR.01.01.01-00-0130/18 - 2/1.1.1/2018 – 2009 – 2015 - Optimisation of beef production in Poland ..." (ProOptiBeef) PO IG.01.03.01-00-204/09
Total number of publications; ORCID (number and hyperlink to the profile); SCOPUS (number and hyperlink to the profile); indicate selected publications (max. 5)	– 136 publications – 0000-0002-5770-4573; https://orcid.org/0000-0002-5770-4573 – 55257254500; https://www.scopus.com/authid/detail.uri?authorId=55257254500 – Matin M., Kapoor B., Gulati M., Mickael M-E., Matin F. B., Kamińska A., Bensz J., Sołdacki D., WIERZBICKA A., Marcinkowska-Lesiak M., Fatimi A., Liu H-Y., Gan R-Y., Adamska O., Stolarczyk A.,

	Horbańczuk J. O., Jóźwik A., Atanasov A.G. (2025). Exploring the innovation landscape of ginger: Insights from patent documentation analysis. <i>Current Research in Biotechnology</i>, Volume 9, 100299. https://doi.org/10.1016/j.crbiot.2025.100299 – Ławiński M., Zadka K., Ksepka N., Matin M., Wysocki K., Karkocha D., Gradowska A., Atanasov A.G. Słodkowski M., WIERZBICKA A., Jóźwik A. (2025). Does Resveratrol Impact Oxidative Stress Markers in Patients with Head and Neck Cancer Receiving Home Enteral Nutrition? <i>Nutrients</i>, 17(3), 504; https://doi.org/10.3390/nu17030504 – Matin M., Hrg D., Litvinova O., Łysek-Gładysinska M., WIERZBICKA A., Horbańczuk J.O., Jóźwik A & Atanasov A. G. (2024). The global patent landscape of functional food innovation. <i>Nature Biotechnology</i>, 42, pages 1493–1497. https://doi.org/10.1038/s41587-024-02410-0 – Żbik K., Górską-Horczyzak E., Zalewska M. WIERZBICKA A., Półtorak A. (2024). Methods for Determining Polycyclic Aromatic Hydrocarbons (PAHs) in Milk: A Review. <i>Applied Sciences</i>. 14(23), 11387; https://doi.org/10.3390/app142311387 – Żbik K., Onopiuk A., Górską-Horczyzak E., WIERZBICKA A. (2024). Trends and Opportunities in the Dairy Industry: A2 Milk and Processing Methods. <i>Applied Sciences</i>, 14(15), 6513; https://doi.org/10.3390/app14156513
Total number of patents; selected patents (max. 2) and a hyperlink to personal patent achievements (UP RP), on the day of completing the form	– 29, including 6 industrially implemented and 3 granted long-term non-exclusive licenses – 3 protected European industrial designs EUIPO (formerly OHIM) sold to industry – 3 patent applications
Selected scientific achievements from the newest, i.e. 2023, 2022, 2021... (in points, min. 800 characters, max. 1000 characters)	– Building our own research school in the field of research on the quality, nutritional and health-promoting properties of meat and meat products (beef, pork, poultry) by developing 13 projects and winning them in competitions (5 the project manager, 8 research participant) (implementing institutions among others: OPI, NCBR), and then completing 12 doctoral theses as part of these projects, 10 of which were defended with distinction and one completed in collaboration with Dublin University. – Development and industrial implementation of inventions enabling the production of food that meets the health needs of people with metabolic syndrome. – Creation and commercialization of European industrial designs that meet the requirements for digitizing information about food properties (numerical pictogram system). – Development of the first Polish beef production quality system, the QMP System, which was recognized by the Minister of Agriculture and Rural Development, then notified by the European Commission and included in the Rural Development Programme (RDP), thus enabling beef producers to obtain support.

	– Extension of the QMP System to dairy cattle and acceptance of the QMP System in sustainable production standards (eco-scheme).
Number and list of defended PhD students from the latest, i.e. 2024, 2023, 2022...	– 12, including 1 one international doctoral thesis and 10 doctoral theses defended with distinction, of which 2 persons obtained habilitations and another 2 obtained the full title of professor – Adrian Stelmasiak: Assessment of selected properties of..., Institute of Human Nutrition, Defense date: 08-06-2021 – Ewelina Pogorzelska-Nowicka: The effect of substances..., Faculty of Human Nutrition, Defense date: 17-10-2018 – Iwona Wojtasik-Kalinowska: Characteristics of the profile of volatile compounds in meat..., Faculty of Human Nutrition, Defense date: 14-06-2018 – Elżbieta Górską-Horczyzak: Application of the chromatographic profile of volatile compounds..., Faculty of Human Nutrition, Defense date: 13-12-2017 – Joanna Łopacka: Analysis of the variability of selected quality parameters of beef..., Faculty of Human Nutrition, Defense date: 24-10-2017 – Małgorzata Moczowska: Changes in the tenderness of beef... Faculty of Human Nutrition, Defense date: 19-07-2017 – Sakowska Anna: Assessment of the impact of using low concentrations of carbon monoxide..., Faculty of Human Nutrition, Defense date: 07-12-2016 – Piwińska Monika: The impact of adding fiber preparations..., Faculty of Human Nutrition, Defense date: 08-06-2016 – Kurek Marcin: The impact of the additive and degree of micronization..., Faculty of Human Nutrition, Defense date: 16-12-2015 – Marcinkowska-Lesiak Monika: The impact of the type of packaging..., Faculty of Human Nutrition, Defense date: 20-05-2015 – Wyrwisz Jarosław: The impact of adding fiber..., Faculty of Human Nutrition, Defense date: 15-12-2010 – Guzek Dominika: Analysis of the impact of some parameters..., Faculty of Human Nutrition, Defense date: 28/04/2010
Organizational activities, dissemination of knowledge and others (in points, min. 300 characters, max. 1000 characters)	– from 2010 to 2019, member of the National Science and Higher Education Committee (KEJN) at the Ministry of Science and Higher Education – since 2015, expert and reviewer for EU, REA, and Horizon 2020 projects, including ProSafeBeef – since 2013, member of the Technical Committee of the PCA QMP System – 2010 – 2012 reviewer in competitions 37, 38, and 39 at the Ministry of Science and Higher Education

- since 2010, expert and reviewer at the National Centre for Research and Development (NCBR) and the Polish Agency for Enterprise Development (PARP)
- 2008, co-author of the System QMP, the first system for quality beef production in Poland.

- 1st Class prize team award of the Ministry of Science and Higher Education for special implementation achievements in 2022
- 6 I° Awards of the Rector of the SGGW-WULS for scientific achievements in: 2024, 2023 and 2022, 2019, 2018, 2016
- 5 II° Awards of the Rector of the SGGW-WULS for organizational and scientific achievements in: 2021, 2014, 2013, 2012, 2007
- 1 I° Awards of the Rector of the SGGW-WULS for organizational achievements in 2020
- 2 III° awards of the Rector of the SGGW-WULS for scientific achievements, 2004 and 1999
- 1 CIGR Award in 2015
- 1 Officer's Cross of the Order of Brussels Eureka, Belgium, 2015
- 10 medals for innovation, including 2 gold medals with distinction and 6 gold medals at the Brussels Innova World Fair for Scientific Research and New Technologies, 2015, 2014, and 2013
- 1 Special Award at the INPEX Trade Fair, Pittsburgh, USA, for the best patent in the food sector, Inventions and New Products Fair, 2015
- 2 Awards from the Ministry of Science and Higher Education for outstanding achievements in innovation on the international stage in 2013 and 2014
- 1 Award from the Minister of Economy, Brussels, Belgium, 2014
- 1 Belgian Knight's Cross of the Order of Invention, Kingdom of Belgium. Brussels 2014
- 4 diplomas from the Ministry of Science and Higher Education for outstanding achievements in the field of innovation on the international arena in 2012
- 1 First Degree Team Award and 1 Second Degree Award from the Minister of Agriculture and Rural Development (1999) for the development and implementation of the Polish 01 MG machine and for achievements in promoting progress in the agri-agricultural industry in 1999 and 1996