



ACADEMIC TEACHER PROFESSIONAL EXPERIENCE

DOCTORAL SCHOOL OF WROCLAW UNIVERSITY OF SCIENCE AND TECHNOLOGY

1. Basic information

Name, surname:	PIOTR BARTŁOMIEJ MŁYNARZ
Grade / Title:	PROFESSOR
Scientific discipline	nauki chemiczne / chemical sciences
Faculty:	W3 Wydział Chemiczny / Faculty of Chemistry
Email address:	PIOTR.MLYNARZ@PWR.EDU.PL
Link to home page and/or research profiles (Google Scholar, ResearchGate, etc.)	https://orcid.org/0000-0002-8502-4022 https://www.scopus.com/authid/detail.uri?authorId=6603316996 https://www.researchgate.net/profile/Piotr-Mlynarz/research https://scholar.google.pl/citations?user=lfaatZMAAAAJ&hl=pl

2. Publication record

Up to 10 most important papers published over the period of previous 10 years.

No.	Description (authors, publication title, journal / conference, DOI)	Publication year
1.	Drulis-Fajdas D. et al., Glycogen phosphorylase inhibition improves cognitive function of aged mice, <i>Aging Cell</i> , 10.1111/ace.13928	2023
2.	Awashra, M and Mlynarz, P., The toxicity of nanoparticles and their interaction with cells: an <i>in vitro</i> metabolomic perspective, <i>Nanoscale Advances</i> , 10.1039/d2na00534d	2023
3.	Shmitz, C. et al., Response regulator PorX coordinates oligonucleotide signalling and gene expression to control the secretion of virulence factors, <i>Nucleic Acids Research</i> ,	2022
4.	Puelko-Malik N., et al., Validated liquid chromatography-mass spectrometry method for the quantification of glycogenolysis phosphorylase inhibitor in mouse tissues 5-isopropyl-4-(2-chlorophenyl)-1-ethyl-1,4-dihydro-6-methyl-2,3,5-pyridinetricarboxylic acid ester disodium salt hydrate, <i>Journal of Separation Science</i> , 10.1002/jssc.202200454	2022
5.	Mielko KA. et al., Comparison of bacteria disintegration methods and their influence on data analysis in metabolomics, <i>Scientific Reports</i> , 10.1038/s41598-021-99873-x	2021



6.	Stanimirowa I. et al., Serum metabolomics approach to monitor the changes in metabolite profiles following renal transplantation, Scientific Reports, 10.1038/s41598-020-74245-z	2020
7.	Wojtowicz W. et al. Evaluation of MDA-MB-468 Cell Culture Media Analysis in Predicting Triple-Negative Breast Cancer Patient Sera Metabolic Profiles, 10.3390/metabo10050173	2020
8.	Mielko KA. et al., Metabolomic studies of <i>Pseudomonas aeruginosa</i> , World Journal of Microbiology & Biotechnology, 10.1007/s11274-019-2739-1	2019
9.	Jawor P. et al. Metabolomic studies as a tool for determining the post-mortem interval (PMI) in stillborn calves, BMC Veterinary Journal, 10.1186/s12917-019-1935-4	2019
10.	Mika A., et al., Application of nuclear magnetic resonance spectroscopy for the detection of metabolic disorders in patients with moderate kidney insufficiency Journal of Pharmaceutical and Biomedical Analysis	2018

3. Projects and grants

List of the most important 5 projects/grants with basic description including: title, source(s) of funding, name of the call, role in the project (e.g., principal investigator).

1.	Role in the project (e.g., principal investigator, work package leader, etc.)	Work package leader
	Project title	The role of metabolic disorders modulated by MTRAC2 protein in colorectal cancer
	Sources of funding	NSC (NCN)
	Name of the call	OPUS
	Implementation period	2023-2026
2.	Role in the project (e.g., principal investigator, work package leader, etc.)	Work package leader
	Project title	Epigenetic therapies in oncology - EPTHERON
	Sources of funding	NCRD (NCBiR)
	Name of the call	STRATEGMED
	Implementation period	2014-2018
3.	Role in the project (e.g., principal investigator, work package leader, etc.)	Work package leader]
	Project title	Diagnosis of intramammary infection in poorly viable and stillborn calves. Evaluation of the usefulness of selected parameters as potential markers,
	Sources of funding	NCRD (NCBiR)
	Name of the call	DZP/PBSII/1730/2013]
	Implementation period	2013



4.	Role in the project (e.g., principal investigator, work package leader, etc.)	Main contractor]
	Project title	„Construction of peptide libraries and metabolomic studies as tools in thyroid cancer diagnosis”
	Sources of funding	NSC (NCN)
	Name of the call	OPUS
	Implementation period	2011-2014
5.	Role in the project (e.g., principal investigator, work package leader, etc.)	Main contractor]
	Project title	Biotechnologies and advanced medical technologies "Detection of hallucinogenic substances”
	Sources of funding	MSHE – POIG (MNiSW)
	Name of the call	01.01.02-02-003/08
	Implementation period	2011-2014]

4. International experience

Brief description of international cooperation and experience (e.g., research stays, cooperation with foreign entities, coordination or participation in international projects or programmes, keynote speeches and presentations delivered at renowned international conferences, visiting professor stays, invited lectures).

No.	Description	Year(s)
1.	Uniwersytet w Amies, Francja	12/2021
2.	UTS Dallas	04/2018
3.	Uniwersytet w Sienie, Włochy	12/2017, 08/2007, 04/2006
4.	Uniwersytet w Wurzburgu, Niemcy	05/2014
5.	Uniwersytet w Trieście, Włochy	07/2011, 07/2010
6.	Uniwersytet Im. Adama Mickiewicza w Poznaniu (staż FNP typu post-doc)	07-09/2005
7.	Uniwersytet w Catani, Włochy	05/2005
8.	SAPIO, NMR-training course, CERM Florencja, Włochy	07/2001

5. Experience in teaching doctoral students

Brief description of experience in teaching doctoral students (e.g., courses in doctoral schools and PhD studies, summer/winter schools for doctoral students, tutorials, trainings, etc.).

No.	Description	Year(s)
1.	Application of spectroscopic methods in structural chemistry	2022
2.	Advanced analytical methods with use of mass spectrometry and NMR spectroscopy	2021/2022/2023

6. List of supervised doctoral students

List of all supervised doctoral students that defended the PhD including: name of the student, dissertation title, year of awarding PhD.



No.	Name, surname	Dissertation title	Year of awarding PhD
1.	Stanisław Deja	Metabolomic profiling with use of NMR spectroscopy in biological research and medical diagnostics medical	2014
2.	Adam Zabek	Metabolic characterisation of selected pathogenic fungi using metabolomic tools	2015
3.	Ewa Jawień	Application of NMR spectroscopy in metabolomic analysis of food products and agricultural crops	2016
4.	Ziemowit Pokładek	Synthesis of azobenzene switches and fluorescent compounds for application in biology	2017
5.	Wojciech Wojtowicz	Metabolomic studies of tumorigenesis processes on model systems and patient samples	2019
6.	Karolina Mielko	Metabolomic studies of bacteria <i>Pseudomonas aeruginosa</i>	2022
7.	Badr Qasem	Metabolomics analysis of the effect of chemical and physical factors on the selected cell lines	2023

7. Prizes and awards

The most important national and international prizes and awards related to research, development and teaching activities.

No.	Description	Year
1.	RECTOR'S AWARD OF THE WROCLAW UNIVERSITY OF SCIENCE AND TECHNOLOGY	2022, 2021, 2017, 2016, 2013, 2011, 2008
2.	National Scholarship of the Foundation for Polish Science, Wrocław University of Technology,	2005
3.	Award of the Dean of the Faculty of Chemistry of UWr	2004

8. Other significant achievements

Information on other significant achievements related to research, development and teaching activities.

Dean of the Faculty of Chemistry 2020-present,

Vice Dean of the Faculty of Chemistry 2012-2020

KNOW- program -Faculty coordinator, supervisor of more than 90 diploma theses, cooperation with companies from the province - Lower Silesia (KGHM, Tołpa, PCC-Rokita, etc), numerous lectures in schools, supervisor of the scientific circle Allin