

Curriculum Vitae

Personal information

First name / Surname	Zbigniew Lazar		
Address(es)			
Telephone			
Mobile			
E-mail	zbigniew.lazar@gmail.com		
Nationality	Polish		
Date of birth			
Gender	Male		

Personal statement and statement of intent

In the next steps of my career development I would like to continue the research in the physiology and genetic of *Y. lipolytica*. In my career plans I wish to work within the next few years as a postdoctoral fellow in a renowned laboratory where I can further develop my knowledge and experience which I could use during the formation of my own academically oriented research group, which is my long time goal.

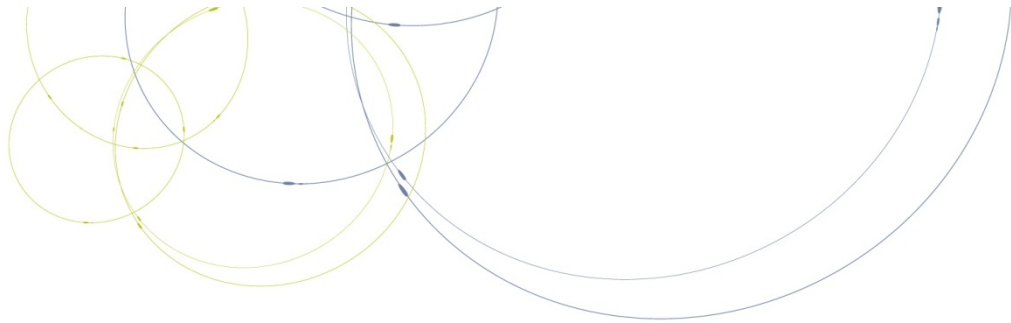
I am fully able to independently conduct research projects. I am also a hardworking, highly motivated and willing to learn person and I am able to work under pressure.

Education and training

Location and dates	Wroclaw, Poland, 01.10.2006 - 17.02.2011
Title of qualification awarded	Ph.D.
Principal subjects/occupational skills covered	Biology, specialization in biotechnology
Name of Institute	Faculty of Food Sciences, Wroclaw University of Environmental and Life Sciences

Location and dates	Wroclaw, Poland, 01.10.2009 – 28.02.2010
Title of qualification awarded	Postgraduate studies
Principal subjects/occupational skills covered	“Business Academy for Scientists, how to apply knowledge in own company”
Name of Institute	TAW Polska Ltd.

Location and dates	Zurich, Switzerland, 15.09.2008 – 16.06.2009
Title of qualification awarded	Ph.D. training
Principal subjects/occupational skills covered	Glycobiology, genetic engineering
Name of Institute	Institute of Microbiology, Swiss Federal Institute of Technology



Location and dates	Wroclaw, Poland, 03.2005 – 06.2006
Title of qualification awarded	Master of Science
Principal subjects/occupational skills covered	Food Technology and Human Nutrition
Name of Institute	Faculty of Food Sciences, Agricultural University of Wroclaw

Location and dates	Wroclaw, Poland, 10.2001 – 02.2005
Title of qualification awarded	Engineer
Principal subjects/occupational skills covered	Food Technology and Human Nutrition
Name of Institute	Faculty of Food Sciences, Agricultural University of Wroclaw

Work experience

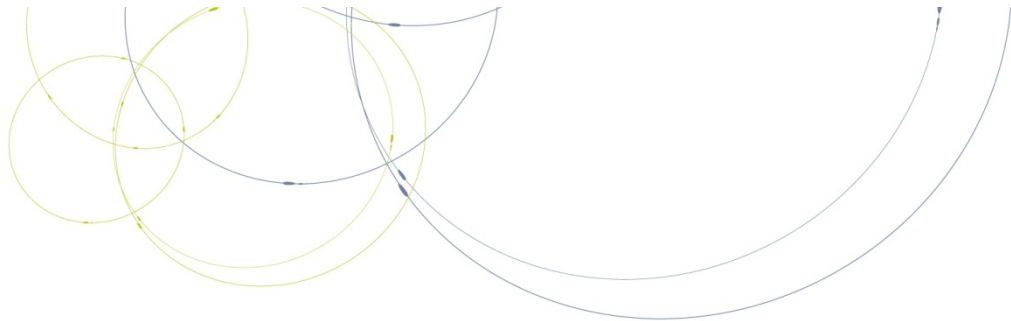
Location and dates	Wroclaw, Poland, 15.09.2011 - present
Occupation or position held	Assistant professor
Main activities and responsibilities	Teaching: (lecture) glycobiology; (laboratories) biochemistry, molecular biology, genetic engineering, enzymology, industrial biotechnologies, microbiology Scientific project related to molecular biology, glycobiology and industrial applications of <i>Yarrowia lipolytica</i>
Name of employer	Department of Biotechnology and Food Microbiology, Faculty of Food Sciences, Wroclaw University of Environmental and Life Sciences

Location and dates	Wroclaw, Poland, 01.08.2011 – present
Occupation or position held	Coordinator of biotechnology study
Main activities and responsibilities	Supervision over the biotechnology studies, supervision over the additional student's activities, help in solving problems related to the course of study
Name of employer	Wroclaw University of Environmental and Life Sciences

Location and dates	Wroclaw, Poland, 01.10.2010 – 14.09.2011
Occupation or position held	Senior technician
Main activities and responsibilities	Conducting research related to the production of citric acid by <i>Aspergillus niger</i> , preparation of classes in microbiology and fermentation technology
Name of employer	Department of Food Biotechnology, Wroclaw University of Economy

Location and dates	Zurich, Switzerland, 15-21.02.2010
Occupation or position held	Research training
Main activities and responsibilities	Glycobiology of <i>Yarrowia lipolytica</i>
Name of employer	Institute of Microbiology, Swiss Federal Institute of Technology

Location and dates	Bielsko Biala, Poland, 09.2005
Occupation or position held	Apprenticeship in microbiology



Main activities and responsibilities	Microbiological analysis of the fat production processes
Name of employer	Bielmar Ltd.

Location and dates	Namyslow, Poland, 08.2005
Occupation or position held	Apprenticeship
Main activities and responsibilities	Technological process of beer production
Name of employer	Namyslow Brewery Ltd.

Location and dates	Jastrzebie-Zdroj, Poland, 07.2004
Occupation or position held	Apprenticeship
Main activities and responsibilities	Technological process of spices production
Name of employer	Prymat Ltd.

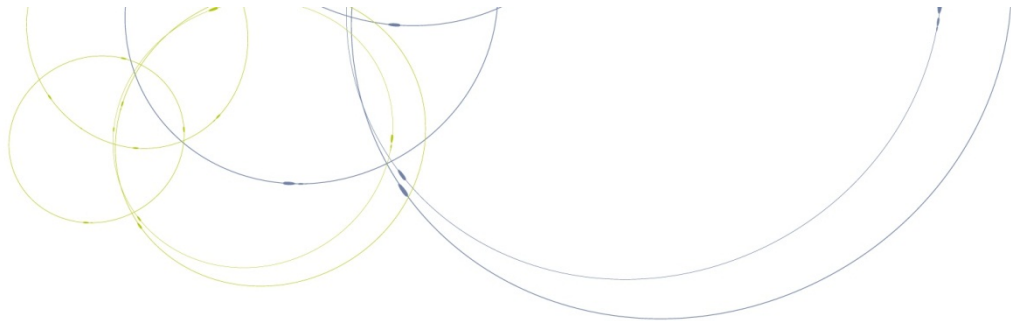
Location and dates	Pawlowice Slaskie, Poland, 07.2003
Occupation or position held	Apprenticeship
Main activities and responsibilities	Technological process of milk and dairy products production
Name of employer	Dairy in Pawlowice Slaskie

Languages

Mother tongue(s)	Polish				
Other language(s)	Understanding		Speaking		Writing
<i>European level (*)</i>	Listening	Reading	Spoken interaction	Spoken production	
English	B2	C1	B2	B2	B2
German	B1	B1	B1	B1	B1
	(*) Common European Framework of Reference for Languages http://europass.cedefop.europa.eu/en/resources/european-language-levels-cefr				

Academic Record

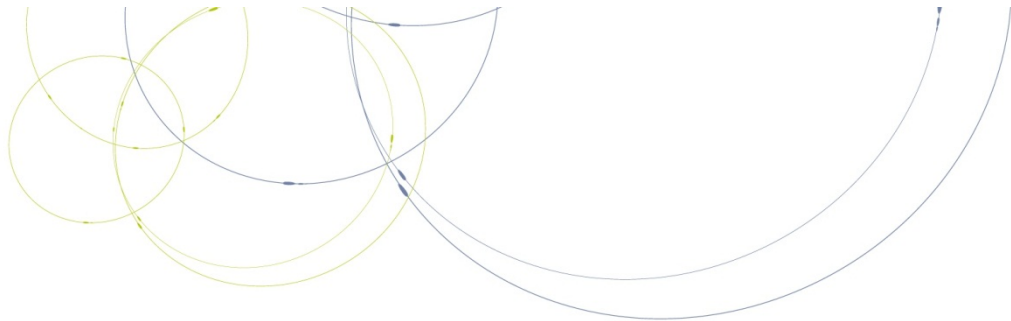
Publications	<p>Accepted, in press and published articles / papers:</p> <ul style="list-style-type: none"> Rywińska A, Juszczak P, Wojtatowicz M, Robak M, Lazar Z, Tomaszewska L, Rymowicz W, Glycerol as a promising substrate for <i>Yarrowia lipolytica</i> biotechnological applications, review, Biomass and Bioenergy, 2012 Śnieżewski Ł, Walczak E, Lazar Z, Robak M, Low peptone dose as inductor of alkaline protease promoter used for invertase gene expression in <i>Yarrowia lipolytica</i>, Journal of Life Sciences, 2012 Lazar Z, Walczak E, Robak M, Simultaneous production of citric acid and invertase by <i>Yarrowia lipolytica</i> SUC⁺ transformants, Bioresource Technology, 2011, 102, 6982-6989 Robak M, Boruckowski T, Drożdż W, Lazar Z, Baranowska M, Prządo D, Steininger M, Charczuk Z, Microbiological bioremediation of creosote oil-contaminated soil using „in situ” method, Ochrona Środowiska, 2011, 33, 2 Buser R*, Lazar Z*, Kaser S, Kunzler M, Aebi M: Identification, characterization and biosynthesis of a novel N-glycan modification in the fruiting body of the basidiomycete <i>Coprinopsis cinerea</i>, Journal of Biological Chemistry, 2010,
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	<p>285(14), 10715-10723 (*equal contribution)</p> <ul style="list-style-type: none"> Walczak E, Lazar Z, Mauesberger S, Robak M., Evaluation of <i>Yarrowia lipolytica</i> transformants growth on lactose, Acta Scientiarum Polonorum Biotechnologia, 2007, 4, 21-29
	<p>Submitted publications</p> <ul style="list-style-type: none"> Lazar Z, Robak M, Biochemical characterization of β-fructofuranosidase produced as heterologous protein by <i>Yarrowia lipolytica</i>, Biochemical Genetics
	<p>Patent application</p> <ul style="list-style-type: none"> Robak M, Lazar Z, Walczak E, The method of bioproducts obtaining using yeast <i>Yarrowia lipolytica</i>, Patent Application No. P391223, 19.05.2010
Participation in open calls for proposals as contributor or leader	<ul style="list-style-type: none"> Swiss Government Excellence Scholarships for Foreign Scholars and Artists 2008/2009 - "Analysis of the cell wall proteome during fruiting body formation in the mushroom <i>Coprinopsis cinerea</i>" 1407/B/P01/2007/33, „Molecular differentiation and identification of yeast occurring in fermented food”, project funded by the Polish Ministry of Science and Higher Education, completed in 2008, main project worker
Graduate teaching as lecturer or training coordinator	Glycobiology, biochemistry, microbiology, enzymology, molecular biology, genetic engineering, industrial biotechnologies (in Polish and English)
Awards and prizes if any	<ul style="list-style-type: none"> Rector of WUELS award for scientific activities, 2012 Holder of Swiss Federal Scholarship for young scientist, 2008

Collaboration and Networking

Participation in collaborative projects funded by competitive programmes	<p>"The use of bacteriophages to develop preparations against drug resistant bacterial infections for use in the breeding of animals" (No. POIG.01.04.00-24-133/11), - research task "The study of selected biological activity of bacteriophages and their encapsulation technology development in production of phage preparations against the multiple strains of <i>Salmonella</i>, <i>Escherichia</i>, <i>Staphylococcus</i> and <i>Streptococcus</i> to combat these bacteria harbouring by selected animals", project in cooperation with biotechnological company SKOTAN S.A. and Polish Academy of Science funded by European Union as a part of Operational Programme "Innovative Economy", project worker</p>
Partnerships or experience with industry	<ul style="list-style-type: none"> Bioremediation of soil contaminated with creosote oil, cooperation with Nasycalnia Podkładów Pludry Ltd., Pludry, Poland (company occupied with impregnation of railway underlays) The use of yeast <i>Yarrowia lipolytica</i> for the degradation of organic compounds contained in the copper concentrate. Cooperation with KGHM CUPRUM Ltd., Wrocław, Poland
University or post-graduate programme leader	Coordinator of Biotechnology study, UDA-POKL.04.01.02-00-075/11, project funded by European Union as a part of "Human Capital" Operational Programme
Membership of professional bodies and committees	<ul style="list-style-type: none"> Polish Biochemical Society Polish and European Federation of Biotechnology
Other experience and skills relevant to the application	<ul style="list-style-type: none"> Yeast cultures in bioreactor; protein purification using gel chromatography methods; PAGE and SDS-PAGE electrophoresis; DNA and RNA extraction; primer design; reverse transcription; PCR, Real Time PCR, PCR-RFLP; bacteria, yeast and filamentous fungi transformation; Western Blotting; Southern Blot; RNAi silencing method; isolation, labeling and analysis of N-glycans using



	<p>MALDI-TOF-MS method; HPLC; working with insect cell lines and baculovirus expression system; <i>in vitro</i> analysis of enzymatic activity; standard biochemical and microbiological analysis; immobilization of yeasts in alginate gels and porous ceramic sinter.</p> <ul style="list-style-type: none"> • Participation in 8 international scientific conferences, twice with oral presentation
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Scientific References

Full name	Małgorzata Robak
Position	Professor
Institution	Wroclaw University of Environmental and Life Sciences
Email address	malgorzata.robak@up.wroc.pl

Full name	Markus Aebi
Position	Professor
Institution	Swiss Federal Institute of Technology
Email address	markus.aebi@micro.biol.ethz.ch

Full name	Waldemar Rymowicz
Position	Professor
Institution	Wroclaw University of Environmental and Life Sciences
Email address	waldemar.rymowicz@up.wroc.pl