

Ludwika Tomaszewska

PhD Student, Assistant

Department of Biotechnology and Food Microbiology

Faculty of Food Sciences and Technology, Wrocław University of Environmental and Life Sciences

e-mail address: ludwika.tomaszewska@up.wroc.pl

Education

Eng. in Biotechnology, Wrocław University of Environmental and Life Sciences, Faculty of Food Sciences and Technology (2005 - 2009)

M.Sc. in Food Biotechnology, Wrocław University of Environmental and Life Sciences, Faculty of Food Sciences and Technology (2009 - 2010)

Ph.D. in Biotechnology, Wrocław University of Environmental and Life Sciences, Faculty of Food Sciences and Technology (2010 - Today)

Publications

1. Tomaszewska L., Rywińska A., Gładkowski W., 2012. Production of erythritol and mannitol by *Yarrowia lipolytica* yeast in media containing glycerol. *Journal of Industrial Microbiology and Biotechnology* 39, 1333-1344.
2. Rywińska A., Juszczak P., Wojtatowicz M., Robak M., Lazar Z., Tomaszewska L., Rymowicz W., 2013. Glycerol as a promising substrate for *Yarrowia lipolytica* biotechnological applications. *Biomass and Bioenergy* 48, 148-166.
3. Juszczak P., Tomaszewska L., Kita A., Rymowicz W., 2013. Biomass production by novel strains of *Yarrowia lipolytica* using raw glycerol, derived from biodiesel production. *Bioresource Technology* 137, 124-131.
4. Rywińska A., Tomaszewska L., Rymowicz W., 2013. Erythritol biosynthesis by *Yarrowia lipolytica* yeast under various culture conditions. *African Journal of Microbiology Research* 7(27), 3511-3516.
5. Tomaszewska L., Rymowicz W., Rywińska A., 2014. Mineral supplementation increases erythrose reductase activity in erythritol biosynthesis from glycerol by *Yarrowia lipolytica*. *Applied Biochemistry and Biotechnology* 172, 3069-3078.

Participation in international conferences

1. Juszczak P., Rymowicz W., Tomaszewska L., Screening of *Yarrowia lipolytica* yeast strains for biomass production from glycerol - POSTER. 6th International Conference on Renewable Resources and Biorefineries, Dusseldorf, Germany, 7 – 9 June 2010.
2. Tomaszewska L., Effect of pH and NaCl on erythritol biosynthesis by two different strains of *Yarrowia lipolytica* yeast - POSTER. PhD Students and Young Scientists Conference “Young scientists towards the challenges of modern technology”; Warsaw, 19 – 22 September 2011.

3. Tomaszewska L., Rywińska A., Utilization of glycerol into polyols by *Yarrowia lipolytica* yeasts - POSTER. European Biotechnology Congress, Istanbul, Turkey, 28 September – 1 October 2011.
4. Tomaszewska L., Rywińska A., Musiał I., Rymowicz W., Juszczuk P., Effect of vitamins source on erythritol biosynthesis by *Yarrowia lipolytica* Wratislavia K1 - POSTER. European Biotechnology Congress, Istanbul, Turkey, 28 września – 1 października 2011.
5. Tomaszewska L., Peptone as a nitrogen source for erythritol production from glycerol by *Yarrowia lipolytica* yeast. 7th PhD Students and Young Scientists Conference “Young Scientists Towards the Challenges of Modern Technology”, Warsaw, 17 – 20 września 2012.
6. Tomaszewska L., Rywińska A., Rymowicz W., The effect of Zn, Mn and Cu ions on erythritol production from glycerol by *Yarrowia lipolytica* yeast. 3rd Annual International Conference on Advances in Biotechnology, Singapore, 18 – 19 March 2013.
7. Rywińska A., Tomaszewska L., Bąk M., Mirończuk A., Cybulski K., Rymowicz W., Erythritol production from glycerol by *Yarrowia lipolytica* in batch, fed-batch and repeated-batch regimes - POSTER. 3rd Annual International Conference on Advances in Biotechnology, Singapore, 18 – 19 March 2013.
8. Juszczuk P., Tomaszewska L., Rymowicz W., Production of mannitol by *Yarrowia lipolytica* in fed-batch fermentation - POSTER. 3rd Annual International Conference on Advances in Biotechnology, Singapore, 18 – 19 March 2013.
9. Wojtatowicz M., Tomaszewska L., Rymowicz W., Cybulski K., Rakicka M., Żarowska B., Rywińska A., Effect of nitrogen source on erythritol production from glycerol by *Yarrowia lipolytica* - POSTER. 9th International Conference on Renewable Resources and Biorefineries, Antwerp, Belgium, 5-7 June 2013.
10. Tomaszewska L., Rywińska A., Rymowicz W., Reduction of by-products in erythritol biosynthesis from glycerol by *Yarrowia lipolytica* - POSTER. 10th Annual World Congress on Industrial Biotechnology, Montreal, Canada, 16 – 19 June 2013.
11. Rywińska A., Tomaszewska L., Rymowicz W., Changes of enzymes activity during erythritol biosynthesis by *Yarrowia lipolytica* - POSTER. 10th Annual World Congress on Industrial Biotechnology, Montreal, Canada, 16 – 19 June 2013.

Other experience

1. Namysłów Brewery Ltd, Namysłów, Poland - summer technological practice (July 2008)
2. Lesaffre Poland SA, Wołczyn, Poland - technological practice (July 2008)
3. Laboratory for In Vitro Biology and Horticulture, Department of Plant Production, Faculty of Bioscience Engineering, University of Ghent, Ghent, Belgium - student internship (February-June 2010)
4. Laboratory of Tumor Immunology, Department of Tumor Immunology, Ludwik Hirszfeld Institute of Immunology and Experimental Therapy, Polish Academy of Sciences, Wrocław, Poland - summer practice (July 2011)
5. Postgraduate pedagogical studies (2012-2013). Obtaining of teaching qualifications certificate - June 2013.