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**Position:** assistant professor – since 2004  
(1993-2004 – assistant)

**Education:** 2003: Ph.D in Agricultural Sciences, specialization: Plant Biochemistry, Faculty of Agriculture and Biology, Warsaw University of Life Sciences –SGGW

1992: MSc. In Plant Phytopatology, Faculty of Horticulture, Warsaw University of Life Sciences –SGGW

**Teaching:** Regular courses for students (Lectures and laboratory):  
since 2014 Experimental biochemistry  
since 2014 Regulation of metabolism  
2005-2019 Biochemistry

### Publications:

1. Labudda M., Różańska E., **Prabucka B.**, Muszyńska E., Marecka D., Kozak M., Dababat A.A., Sobczak M. Activity profiling of barley vacuolar processing enzymes provides new insights into the plant and cyst nematode interaction. *Molecular Plant Pathology* <https://doi.org/10.1111/mpp.12878>
2. Fidler J., Grabowska A., **Prabucka B.**, Więsyk A., Góra-Sochacka A., Bielawski W., Pojmaj M., Zdunek-Zastocka E. 2018 The varied ability of grains to synthesize and catabolize ABA is one of the factors affecting dormancy and its release by after-ripening in imbibed triticale grains of cultivars with different pre-harvest sprouting susceptibilities. *Journal of Plant Physiology* 226, 48-55. DOI: 10.1016/j.jplph.2018.03.021
3. **Prabucka B.**, Mielecki M., Chojnacka M., Bielawski W., Czarnocki-Cieciura M., Orzechowski S. 2017 Structural and functional characterization of the triticale phytocystatin TrcC-8 and its dimerization-dependent inhibitory activity. *Phytochemistry* 142: 1-10 DOI: 10.1016/j.phytochem.2017.06.008
4. Fidler J., Zdunek-Zastocka E. , **Prabucka B.**, Bielawski W. 2016. Abscisic acid content and the expression of genes related to its metabolism during maturation of triticale grains of cultivars differing in pre-harvest sprouting susceptibility. *Journal of Plant Physiology* 207, 1-9.

5. **Prabucka, B.**, Drzymała, A., Grabowska, A., 2013 Molecular cloning and expression analysis of the main gliadin-degrading cysteine endopeptidase EP8 from triticale. *Journal of Cereal Science*, doi: 10.1016/j.jcs.2013.06.004
6. Szewińska, J., **Prabucka, B.**, Krawczyk, M., Mielecki, M., Bielawski W., 2013. The participation of phytocystatin TrcC-4 in the activity regulation of EP8, the main prolamin degrading cysteine endopeptidase in triticale seeds. *Plant Growth Regulation* 69 (2), 131-137. DOI: 10.1007/s10725-012-9756-5
7. Drzymała A., **Prabucka B.**, Bielawski W. 2012. Carboxypeptidase I from triticale grains and the hydrolysis of salt-soluble fractions of storage proteins. *Plant Physiology and Biochemistry* 58: 195-204
8. Drzymała A., **Prabucka B.**, Bielawski W. 2009. Mobilizacja białek zapasowych ziarniaków zbóż. *Postępy Biochemii* 55(4): 447-455
9. Drzymała A., **Prabucka B.**, Gajo I., Bielawski W. 2008. Endogenous action of cysteine endopeptidase and three carboxypeptidases on triticale prolamins. *Cereal Chemistry* 85(3): 366-371
10. Drzymała A., **Prabucka B.**, Bielawski W. 2005. Carboxypeptidases of germinating triticale grains. *Acta Physiol Plant* 27(4A) 539-547
11. **Prabucka B.**, Bielawski W. 2004. Purification and partial characteristic of a major gliadin-degrading cysteine endopeptidase from germinating triticale seeds. *Acta Physiol Plant* 26(4): 383-391
12. Bielawski W., **Prabucka B.** 2001. Endopeptidases of triticale seeds. *Biol Plantarum*. 44: 283-288 Prabucka B., Bielawski W. 2004. Purification and partial characteristic of a major gliadin-degrading cysteine endopeptidase from germinating triticale seeds. *Acta Physiol Plant* 26(4): 383-391
13. Kączkowski J., Garbaczewska G., Bartoszewicz K., **Prabucka B.** 1996. Relationships between the tissue structure and  $\beta$ -endoglucanase localization in germinating triticale seeds. *Żywność. Nauka. Technologia. Jakość*. 2(7) 16-26
14. **Prabucka B.**, Bartoszewicz K., Bielawski W., Kączkowski J. 1995. Dynamic changes of  $\alpha$ -amylase and 1-3,1-4- $\beta$ -endoglucanase in the milling fractions of grains of Malno and Lasko cultivars during germination. *Acta Physiol Plant* 17(3): 255-260

#### Conferences:

1. Labudda M., Różańska E., Prabucka B., Muszyńska E, Marecka D., Górecka M., Dababat A.A., Sobczak M. Activity of vacuolar processing enzymes in the response of spring barley to infection with cereal cyst nematodes. IX Conference of PSEPB, Toruń, 9-12 Sept 2019
2. Fidler J., Prabucka B. Purification and biochemical characterization of serine endopeptidase from developing triticale (*XTriticosecale* Wittm.) seeds. 1<sup>st</sup> Polish-German Biochemical Societies Joint Meeting, Poznań 11-14 Sept 2012
3. Prabucka B., Drzymała A., Grabowska A. Molecular cloning and expression analysis of main gliadin-degrading cysteine endopeptidase EP8 from triticale (*x Triticosecale* Wittm.) *Acta Biologica Cracoviensis*, Vol. 51 suppl. 2, IV Conference of PSEPB, Kraków, 21-25 Sept 2009
4. Drzymała A., Prabucka B., Szawłowska U., Bielawski W. "Peptidases activities in germinating triticale grains are regulated by gibberellins", III Conference of PSEPB, Warszawa, 26-30 August 2007
5. Prabucka B., Możaryn B. "Endopeptidases of developing triticale grains", Warszawa, III Conference of PSEPB, Warszawa, 26-30 August 2007
6. Drzymała A., Prabucka B., Bielawski W. „Action of peptidases on prolamines from triticale grains” *Acta Biochim. Polon.* 53, 5841; 42<sup>th</sup> Meeting of the Polish Biochemical Society, Białystok, 12-15 August 2006
7. Prabucka B., Bielawski W. Drzymała A. 2004. Endopeptidases EP3 and EP4 present in dry triticale grains degrade wheat gliadin. *Acta Physiologiae Plantarum*, 26, 203. The 14<sup>th</sup> FESPB Congress, Cracow, 23-23; August 2004.
8. Drzymała A., Prabucka B., Bielawski W. 2004. Carboxypeptidase of germinating Triticale seeds. *European Journal Biochemistry* 86, 271. 29<sup>th</sup> Congress of the Federation of European Biochemistry Societies, Warsaw, June 26 – July 1 2004.

9. Prabucka B., Bielawski W. Purification and characterization of a major gliadin-degrading cysteine endopeptidase from germinating triticales seeds. 39<sup>th</sup> Meeting of the Polish Biochemical Society, Gdańsk 2003
10. Bielawski W., Prabucka B. Endopeptidases of triticales seeds. 37<sup>th</sup> Meeting of the Polish Biochemical Society, Toruń 2001
11. Andrzejczuk-Hybel J., Bartoszewicz K., Bielawski W., Prabucka B. Lokalizacja enzymów rozkładających polisacharydy w kiełkujących ziarniakach pszenżyta. 30<sup>th</sup> Meeting of the Polish Biochemical Society, Szczecin 1994