

Assoc. Prof. Bolesław P. Salmanowicz

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Research field:

Biochemistry, molecular genetics

Research stays abroad:

1. Swedish University of Agricultural Sciences, Department of Forest Pathology and Mycology, Uppsala, Sweden, 1986 (3 months), granted by The Swedish Institute (Svenska Institutet),

2. Swedish University of Agricultural Sciences, Department of Forest Pathology and Mycology, Uppsala, Sweden, 1987 (5 months), research visit financed from Bröderna Edlunds Scholarship Fund, Umea.

3. Carlsberg Research (Center, Department of Chemistry, Copenhagen, Denmark. 1989/1990 (4 months) , granted by Danish Government Scholarships.

4.

Technische Universitat in Munchen, Department of Food Chemistry, Munchen, Germany, 1996 (6 months), granted by DAAF.

5.

The University of Reading, Department Food Biosciences, Reading, England, 2004/2006 (5 months), granted by British Council.

The most important publications:

SALMANOWICZ B.P. (2010). Identification and characterization of high molecular weight secalins from triticale seeds by capillary electrophoresis. *Electrophoresis* 31: 2226-2235.

SALMANOWICZ B.P. (2010). CE determination of secaloindoline allelic forms in hexaploid triticale (*x Triticosecale* Wittmack). *Journal of Separation Science* 33: 643-650.

LANGNER M., SALMANOWICZ B.P. (2009). Identification of puroindoline alleles in wheat cultivars by molecular markers. *Biuletyn IHAR* 253: 93-101.

SALMANOWICZ B.P., NOWAK J. (2009). Diversity of monomeric prolamins in triticale cultivars determined by capillary zone electrophoresis. *J. Agric. Food Chem.* 57: 2112-2118.

SALMANOWICZ B.P., Surma M., Adamski T., Rębarz M. (2008). Effects of amounts of HMW glutenin subunits determined by capillary electrophoresis on technological properties in wheats double haploids. *J. Sci. Food Agric.* 88: 1716-1725.

DOBRSZCZYK B.J., SALMANOWICZ B.P. (2008). Comparison of predictions of baking volume using large deformation rheological properties. *J. Cereal Sci.* 47: 292-301.

- SALMANOWICZ B.P. (2008). Detection of high molecular weight glutenin subunits in triticale cultivars by capillary zone electrophoresis. *J. Agric. Food Chem.* 56: 9355-9361.
- SALMANOWICZ B.P., DYLEWICZ M. (2007). Identification and characterization of high-molecular weight glutenin genes in Polish triticale cultivars by PCR-based DNA markers. *J. Applied Genet.* 48: 347-357.
- DOBRSZCZYK B.J., SALMANOWICZ B.P., LUGOWSKA B, CHEŁKOWSKI J. (2005). Rapid quality assessment of wheat cultivars registered in Poland using the 2g mixograph and multivariate statistical analysis. *Cereal Chemistry* 82: 182-186.
- SALMANOWICZ B.P., MOCZULSKI M. 2004. Multiplex polymerase chain reaction analysis of Glu-1 high molecular-mass glutenin genes from wheat by capillary electrophoresis with laser-induced fluorescence detection. *J. Chromatography A* 1032: 313-318.
- MOCZULSKI M., SALMANOWICZ B.P. (2003). Multiplex PCR identification of wheat HMW glutenin subunit genes by alleles-specific markers. *J Appl Genet* 44: 459-471.
- SALMANOWICZ B. P. (2001). Phaseolin variability in seeds of *Phaseolus vulgaris* by capillary electrophoresis. *J. Appl. Genet.* 42: 269-281.
- SALMANOWICZ B.P. (2000). 2S albumins from seeds of *Lupinus*: polymorphism, structure and properties. Series: Treatises and Monographs, Nr 9: 1-110.
- SALMANOWICZ B.P. (2000). Capillary electrophoresis of seed 2S albumins from *Lupinus* species. *J. Chromatogr.* 894: 297-310.
- SALMANOWICZ B.P. (1999). Seed globulins in the Old World *Lupinus* species: comparative study by HPLC. *Genet. Res. Crop Evol.* 46: 409-417.
- SALMANOWICZ B.P. SALMANOWICZ B.P. (1999). Primary structure and polymorphism of 2S albumins from seeds of Andean lupin (*Lupinus mutabilis* Sweet). *Eur. Food Res. Technol.* 209: 379-388.
- SALMANOWICZ B.P., WEDER J.K. (1997). Primary structure of 2S albumin from seeds of *Lupinus albus*. *Z. Lebensm. Unters. Forsch. A.* 204: 129-134.
- SALMANOWICZ B.P. , PRZYBYLSKA J. (1997). Comparative HPLC analysis of seed albumins from *Vicia faba* and *V. kalakhensis* (Fabaceae). *Plant Syst. Evol.* 208: 1-9.
- SALMANOWICZ B.P. (1995). Capillary electrophoresis of seed albumins from *Vicia* species using uncoated and surface-modified fused silica capillaries. *Chromatographia* 41: 99-106.
- SALMANOWICZ B.P. (1995). Comparative study of seed albumins in the Old-World *Lupinus* species by reversed-phase HPLC. *Plant Syst. Evol.* 195: 77-86.
- SALMANOWICZ B.P., PRZYBYLSKA J. (1994). Electrophoretic patterns of seed albumins in the Old-World *Lupinus* species (Fabaceae): variation in the 2S albumin class. *Plant Syst. Evol.* 192: 67-78.