

Assoc. Prof. Wojciech Rybiński

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Born: 29 March 1948 in Leszno

Field of specialization:

Genetics and plant breeding

Research interests:

Mutagenesis and genetic analyze of mutants, genetics of quantitative and qualitative traits, gene resources of *Lathyrus* -genus, morphological and molecular markers of grasspea accessions (*Lathyrus sativus* L.)

Training abroad:

Technical University of Munich, Institute of Plant Agronomy and Breeding – 1997/77 – 12 months, 1984 – 3 months.

Organization of events

1st Polish Conference "Barley - current genetic and breeding researches", Poland, Poznań 26 May 1994

2nd Polish Conference "Barley - current genetic and breeding researches", Poland, Poznań 30 May 1996

3st Polish Conference "Barley - current genetic and breeding researches", Poland, Poznań 10 December 1998

International co-operation

Genebank Gatersleben of the Leibnitz Institute of Plant Genetics and Crop Researches (IPK), Germany (Dr Andreas Börner and Matthias Kotter) - elaboration of variability of morphological characters and seeds quality in chosen species of *Lathyrus* genus with use of accessions collected in Genebank Gatersleben.

National co-operation

Institute of Animal Nutrition, University of Life Sciences, Lublin (Prof. Eugeniusz Grela) - estimation of chemical composition of seeds in collection materials of grasspea (*Lathyrus sativus* L.)

Plant Breeding Strzelce, Department Małyszyn (dr Henryk Cichy) - estimation of breeding values of grasspea mutants (*Lathyrus sativus* L.) based on the results of field trials

Participation in national research projects

Project of Ministry of Agriculture and Rural Development no. HOR zg 061/8/2008 "Collection and estimation of collection materials obtained in result of genetic researches" (1.1.2008- 30.12.2013) – main guardian of collection

List of significant publication:

[Rybiński W., Szot B., Rusinek R., Bocianowski J. \(2009\). Estimation of geometric and mechanical properties of seeds of Polish cultivars and lines representing selected species of pulse crop. *Int. Agrophysics* 23: 257-267](#)

[Rybiński W., Szot B. \(2009\). Związki między agrofizyką a genetyką i hodowlą roślin zbożowych oraz strączkowych. *Acta Agrophysica* 174. Rozprawy i Monografie, ISSN 1234-4125 s. 5-54](#)

[Grela R., Rybiński W., Klebaniuk R., Matras J. \(2010\). Morphological characteristics of some accessions of grass pea \(*Lathyrus sativus* L.\) grown in Europe and nutritional traits of their seeds. *Genetic Resources and Crop Evolution* 57 \(5\): 693-701](#)

[Bocianowski J., Bakinowska E., Rybiński W. \(2008\). Analysis of selected grasspea mutants by generalized linear model. *Colloquium Biometricum* 38: 161-171.](#)

[Kapała A., W.Rybiński \(1995\). Variability of seed protein composition of hullless mutants of spring barley \(*Hordeum vulgare* L.\). *J.Appl.Genet.* 36\(2\): 129-135.](#)

[Kapała A., W.Rybiński \(1996\). Genetic variation of hordein polypeptides in grains of mutants of hullless spring barley \(*Hordeum vulgare* L.\) breeding lines. *J.Appl.Genet.* 37\(1\): 29-35.](#)

[Kozak M., Bocianowski J., Rybiński W. \(2008\). Selection of promising genotypes based on path and cluster analyses. *Journal of Agricultural Science* 146: 85-92](#)

[Milczak M., M.Pędziński, H.Mnichowska, K.Szwed-Urbaś, W.Rybiński \(2001\). Creative breeding of grasspea \(*Lathyrus sativus* L.\) in Poland. *Lathyrus Lathyrism Newsletter*. Edited by CLIMA, Australia: 2\(2\):85-88.](#)

[Piotrowicz-Cieślak A.I., Rybiński W., Michalczyk D.J. \(2008\). Mutations modulate soluble carbohydrates composition in seed of *Lathyrus sativus*. *Acta Societatis Botanicorum Poloniae* 77 \(4\): 281-287](#)

[Rybiński W \(2001\). Influence of laser beams combined with chemomutagen \(MNU\) on the variability of traits and mutation frequency in spring barley. *Int.Agrophysics* 15:115-119.](#)

[Rybiński W \(2001\). Influence of laser beams combined with chemomutagen \(MNU\) on the variability of traits and mutation frequency in spring barley. *Int.Agrophysics* 15:115-119.](#)

[Rybiński W, M.Surma, T.Adamski \(2001\). The use of laser light for obtaining barley haploids by *Hordeum bulbosum* method. *Biotechnologia* 1 \(52\):142-147](#)

[Rybiński W., Błaszczak W., Fornal J. \(2006\). Seed microstructure and genetic variation of characters in selected grass-pea mutants \(*Lathyrus sativus* L.\). *Int. Agrophysics* 20 \(4\): 317-326.](#)

[Rybiński W., S.Jeżowski, P.Krajewski \(1998\). Variability of yield structure and physical traits determining lodging resistance in barley mutants. *Int.Agrophysics* 12: 221-225.](#)

[Rybiński W., Szot B. \(2006\). Estimation of genetic variability of yielding traits and physical properties of seeds of spring barley \(*Hordeum vulgare* L.\) mutants. *Int. Agrophysics* 20\(3\): 219-227](#)

[Rybiński W., Szot B., Rusinek R. \(2008\). Estimation of morphological traits and mechanical properties of grasspea seeds \(*Lathyrus sativus* L.\) originating from EU countries. *International Agrophysics* 22 \(3\): 261-275](#)

[Rybiński W., T.Adamski, M.Surma \(2000\). The use of laser beams and chemomutagene \(MNU\) in studies on obtaining doubled haploids lines of spring barley. *Zeszyty Problemowe Postępów Nauk Rolniczych* 473:291-298.](#)

[Smulikowska S., Rybiński W., Czerwiński J., Taciak M., Mieczkowska A. \(2008\). Evaluation of selected mutants of grasspea \(*Lathyrus sativus* L.\) var. Krab as an ingredient in broiler chicken diet. *Journal of Animal and Feed Sciences* 17: 75-87](#)

[Rybiński W., Szot B., Rusinek R., Bocianowski J. \(2009\). Estimation of geometric and mechanical properties of seeds of Polish cultivars and lines representing selected species of pulse crop. *Int. Agrophysics* 23: 257-267](#)

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Rybiński W., Szot B. (2009). Związki między agrofizyką a genetyką i hodowlą roślin zbożowych oraz strączkowych. Acta Agrophysica 174. Rozprawy i Monografie, ISSN 1234-4125 s. 5-54

Grela R., Rybiński W., Klebaniuk R., Matras J. (2010). Morphological characteristics of some accessions of grass pea (*Lathyrus sativus* L.) grown in Europe and nutritional traits of their seeds. Genetic Resources and Crop Evolution 57 (5): 693-701