

Prof. dr hab. Wojciech Święcicki

Corresponding member of PAS

Education:

M. Sc. - Agricultural University, Poznań, 1972; dr. - Agricultural University, Bydgoszcz, 1977; dr. hab. - IHAR, Radzików, 1984; prof. - 1991.

Employment:

Grain legumes breeder - Poznań Plant Breeders Ltd. (Plant Breeding Station Wiatrowo), 1972-1991; Head of the Laboratory of Genome Analysis (since 1992), deputy director (1991-2003) and director (since 2003) of the Institute of Plant Genetics.

Research area:

Grain legumes genetics and breeding, biodiversity protection

Research achievements:

- 249 papers (138 original and review, 10 books, 5 popular and 96 abstracts),
- over 20 new genes selected and mapped in *Pisum* including intragenic map at the *Orc* locus,
- co-author of five updated chromosome maps of *Pisum*,
- author of the national *Pisum* gene resources collection and curator of the European *Lupinus* collections database
- latin diagnosis of new *Lupinus* species (*L. anatolicus* and *L. x hispanicoluteus* Swiec et Swiec.,
- author of 20 pea cultivars.

Member of research committees and societies

- editorial board of Plant Breeding (Blackwell) and Genetic Resources and Crop Evolution (Springer),
- coordinating committee of the *Pisum* Genetics Association,
- scientific board of Botanical Garden at Powsin, IHAR at Radzików, Institute of Plant Genetics at Poznań,
- vice chairman of the Advisory Board of COBORU at Słupia Wielka,
- chairman of the National Board for Plant Genetics Resources Protection,
- vice chairman of the Physiology, Genetics and Plant Breeding Committee of Polish Academy of Sciences.

Publications

Święcicki W. K., Wolko B., Weeden N.F., Naganowska B. 2001 The *Pisum*, a model crop – from genetic mapping to breeding progress. Towards the Sust. Prod. of Health. Food, and Novel Prod. AEP, Paris 3-6

Święcicki W.K. 2001 Supplemental data on *fasciata* genes in *Pisum* resources. *Pisum Genetics* 33: 19-20

Irzykowska L., Wolko B., Święcicki W.K. 2001 The genetic linkage map of pea (*Pisum sativum* L.) based on molecular, biochemical and morphological markers. *Pisum Genetics* 33 13-18

Święcicki W. K., Podyma W. 2002 The European *Lupinus* Data Base IPGRI, Rep. Work. Group on Grain Legumes, IIIrd Meet., Kraków 5-7. 06. 2001. 40-45

Święcicki W.K., Czerwinska A, Nawrot Cz. 2002 The origin and variation of lines in the *Lupinus* and *Pisum* collection. Broad Variation and Precise Characterization – Limitation for the Future, Wyd..W.

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Święcicki W.K., Wolko B., Naganowska B. 2002 *L. anatolicus* and *L. xhispanicoluteus* – morphological, biochemical and cytological characterisation Broad Variation and Precise Characterization – Limitation for the Future. Wyd. Święcicki W., B. Naganowska, Wolko B., EUCARPIA/ IGR Poznań 281-284

Naganowska B., Doležel B., Świącicki W.K. 2003 Development of molecular cytogenetics and physical mapping of ribosomal RNA genes in *Lupinus* *Biologia Plantarum* 46 (2) 21-215

Świącicki W.K., Timmerman-Vaughan G. 2004 II. 5 Localization of Important Traits: The Example Pea (*Pisum sativum* L.) W: *Biotech. In Agric. and Forestry. Molecular Marker Systems.* eds. H. Lörz and G. Wenzel. Springer-Verlag, Berlin-Heidelberg. 155-169

Gawłowska M., Wolko B., Irzykowska L., W. Świącicki 2004 Some aspects of genetic maps integration in pea (*Pisum sativum* L.) using JoinMap v.3.0W: *Understanding the Plant Genome.*Wyd. J. Sadowski, PAGEN/IPG PAS 99-111

Świącicki W.K., Gawłowska M. 2004 Linkages for new *fasciata* gene *Pisum Genetics* 36 22-23

Skubisz G., Świącicki W. K., Łabuda H. 2004 Analysys of the mechanical properties of pea stems (*Pisum Sativum* L.) W: *Modern Physical and Physicochemical Methods and Their Applications in Agroecological Research* Wyd: A. Bieganski, G. Józefaciuk, R. T. Walczak 169-175

Obermayer R., Greilhuber J., Świącicki W.K. 2004 Variation in Nuclear DNA Content of *Lupinus luteus* its Wild Progenitor *L. hispanicus* and the Hybrid *L. xhispanicoluteus* W: *Lupin. Wild and Cultivated Lupins from Tropics to the Poles* Wyd. Van Santen E., i Hill G.D. Xth Int. Lup. Conf. Laugarvatn, Iceland:19-24.6.2002 10-12

Świącicki W.K., Gawłowska M., Nawrot Cz. 2005 A new gene for flower color (*crw*, *cream wings*) in *Pisum sativum* L. located on LG I *Pisum Genetics* 37 44-46

Gawłowska M., Świącicki W., Wolko B. 2005 Comparison of genetic maps for two related pea populations (*Pisum sativum*L.) *Pisum Genetics* 37 19-23

Wolko B., M. Książkiewicz, K. Susek, M. Chudy, M. Gawłowska, J. G. Boersma, H. Yang, Świącicki W.K. 2005 Molecular markers for lupin genome mapping developed on the basis of *Medicago truncatula* and *Pisum sativum* sequence databases. Where Old and New World Lupin Meet". 4-9,05, Guadalajara, Mexico 11th International Lupin Conference 52-56

Świecicki W., Gawłowska M. 2009 Yield traits mapping using interval mapping (IM) and mixed-model-based composite mapping (MCIM) in pea (*Pisum sativum* L.) *Genetyka i genomika w doskonaleniu roślin uprawnych Rozprawy i monografie IGR PAN* 227-237

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Matthew N. Nelson, Paula M. Moolhuijzen, Jeffrey G. Boersma, Chudy M., Leśniewska K., Matthew Bellgard, Richard P. Oliver, Świącicki W., Wolko B., Wallace A. Cowling and Simon R. Ellwood 2010 Aligning a new reference genetic map of *Lupinus angustifolius* L. with the genome sequence of the model legume, *Lotus japonicus* *DNA Research* 17(2) 73-83

Machowina K, Świącicki W.K. 2010 Alkaloidy w roślinach ze szczególnym uwzględnieniem łubinów *Postępy Nauk Rolniczych* 3 33-48

Lesław B. Lahuta, Świącicki W., Dzik T., R.J. Górecki and Horbowicz M. 2010 Feeding stem-leaf-pod explants of pea (*Pisum sativum* L.) with D-chiro-inositol or D-pinitol modifies composition of α -D-galactosides in developing seeds *Seed Science Research* 20 213-221