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Research interest:

Genetics, molecular cytogenetics of plants, cereal resistance breeding

Current researches:

- Cytogenetics analysis of cereal distant hybrids chromosomes using molecular cytogenetics methods (GISH, multi-colour GISH, FISH, BAC –FISH).
- Researches connected with controlling introgression of resistance genes against biotic stress (pathogenic fungus) to wheat and *Triticale* from distant species.
- Identification of resistance genes (fungal diseases) in cereals using molecular analysis

Research projects:

Project of Ministry of Agriculture and Rural Development: „**Identification and translocation of eyespot resistance genes to cultivated wheat**” – coexecutor

- Project of Ministry of Agriculture and Rural Development: „**Searching, generating, evaluation and accumulation of head blight resistance sources in wheat**” – coexecutor

Conference presentations (lectures and short oral presentations):

„**Identification of *Pch1* eyespot resistance gene in given wheat lines (*Triticum aestivum* L.)**” – XVIII National Conference: „Microscope fungi and their metabolites”, Poznań, 6 – 7 April 2011.

Posters:

1. „**Analysis of *Pch1* eyespot resistance gene presence in given wheat lines (*Triticum aestivum* L.)**” – Kwiatek M., Pankiewicz K., Korbas M., Wiśniewska H., - Scientific Conference pt.: „Science for Plant Breeding”, Zakopane 7 – 11 February 2011.
2. „**Cytogenetic instability of tetraploid rye introgressive forms with wheat translocations**” - Kulak- Książczyk S., Kwiatek M., Apolinarska B., Wiśniewska H., - III Polish Genetic Congress 12-15.09.2010, Lublin
3. “**The use of *Aegilops x Secale* amphidiloids and substitution rye for introgression of genetic material to rye**” - Apolinarska B., Wiśniewska H., Wojciechowska B., Kwiatek M.
- Sympozjum naukowe pt.: „Wyzwania współczesnej biologii” – Szczecin, 23-24. September 2010.
4. “**Relationships between *Fusarium* head infection, kernel damage, and concentration of *Fusarium* DNA and *Fusarium* metabolites in grain of winter wheat breeding lines inoculated with *Fusarium culmorum***” – Goral T., Wisniewska H., Ochodzki P., Nielsen L.K., Justensen A.F. , Walentyn-Goral D. , Belter J., Jorgensen L.N. , Kwiatek M. - 8th International WheatConference, June 1-4, 2010, St. Petersburg, Russia
5. “**Analiza cytogenetyczna i morfologiczna roślin pokolenia F3 otrzymanych z krzyżowań oddalonych w obrębie rodzaju *Brassica* – Cytological and morphological analysis of F3 generation plants from interspecific hybridization within *Brassica* species**” – Springer B., Wojciechowski A., Kwiatek M., - XXX Scientific Conference: Oil Seed Crops, 16-17.03.2010, Poznań