

**Abdur Rashid, Ph.D.**  
Ag. Research Scientist  
EPPWS, NMSU

#### Publications

##### Review article

**Rashid, A.** (2016). Defense responses of plant cell wall non-catalytic proteins against pathogens. *Physiol. Mol. Plant Pathol.* 94, 38-46.

##### Book publication

**Rashid, A.** (2012) Development of transgenic plants through application of reverse genetics. pp 232; ISBN-13: 978-3-8465-4625-3; LAP LAMBERT Academic Publishing GmbH & Co. KG; Heinrich-Böcking-Str. 6-8, 66121, Saarbrücken, Germany.

##### AGRI-FACTS publication

**Rashid, A. et al.,** (2001). Plant bioassay techniques for detecting and identifying herbicide residues in soil. Agri-Facts: Practical information for Alberta's Agriculture Industry. *Agdex # 609-1.*

##### Journal publications

**Rashid, A. et al.,** (2017). A high-throughput RNA extraction for sprouted single-seed barley (*Hordeum vulgare* L.) rich in polysaccharides. *Plants*, 6, 1-6.

**Rashid, A.** (2017). Comparison of a kanamycin versus hygromycin resistance gene in transgenic plant selection of *Arabidopsis thaliana* L. *Adv. Cell Sci. Tiss. Cult.* 1, 1-3

**Rashid, A.** and Deyholos MK (2015). Phylogenetic relationship and *in silico* expression profile of PELPK1 of *Arabidopsis thaliana* (L.) Heynh. *Intern'l. J. Biosci.* 6, 93-99.

**Rashid, A.** (2014). Sub-cellular localization of PELPK1 in *Arabidopsis thaliana* as determined by translational fusion with green fluorescent protein reporter. *Mol. Biol.* 48, 258-262.

**Rashid, A. et al.,** (2013). A genomic region upstream of *Arabidopsis thaliana* PELPK1 promotes transcription in aleurone tissues and in response to *Pseudomonas syringae* or *Pythium irregulare*. *Plant Mol. Biol. Rep.* 31, 1025-1030.

**Rashid, A. et al.,** (2013). Proteomic profiling of the aleurone layer of mature *Arabidopsis thaliana* seed. *Plant Mol. Biol. Rep.* 31, 464-469

**Rashid, A. et al.,** (2013). Effects of soil-borne *Rhizoctonia solani* on canola seedlings after application of glyphosate herbicide. *Canadian J. Plant Sci.* 93, 97-107.

**Rashid, A. et al.,** (2013). Effects of root exudates and pH on *Plasmodiophora brassicae* (Woronin) resting spore germination and infection of canola (*Brassica napus* L.) root-hairs. *Crop Protection* 48, 16-23.

Hwang, S-F, Ahmed, H., Zhou, Q., **Rashid, A.**, Strelkov, S., Gossen, B., Peng, G. and Turnbull, G. (2013). Effect of susceptible and resistant canola plants on *Plasmodiophora brassicae* resting spore populations in the soil. *Plant Pathol.* 62, 404-412.

**Rashid, A.** and Deyholos, M.K. (2011). PELPK1 contains a unique pentapeptide repeat and is a positive regulator of germination in *Arabidopsis thaliana*. *Plant Cell Rep.* 30, 1735-1745.

**Rashid, A. et al.,** (2005). Inhibition of seed germination and seedling growth by hound's-tongue (*C.officinale*) seed leachate. *Weed Biol. & Mgmt.* 5, 143-149.

**Rashid, A. et al.,** (2003). Spiny annual sowthistle (*Sonchus asper*) resistance to acetolactate synthase (ALS) inhibiting herbicides in Alberta. *Weed Res.,* 43, 214-220.

Shah, S., **Rashid, A.**, Burd, G., Dixon, D. and B. Glick. (2002). Phyto-remediation of Arsenate contaminated soil by transgenic canola and plant growth promoting bacterium, *Enterobacter cloacae* CAL2. *Plant Physiol. Biochem.* 40, 355-361.

**Rashid, A. et al.,** (1998) A possible involvement of gibberellin in the mechanism of wild oat resistance to triallate and cross-resistance to difenzoquat. *Weed Res.* 38, 461-466

- Rashid, A. et al.**, (1997) Effects of *trilalate* and *difenzoquat* on fatty acid composition in young shoots of susceptible and resistant *Avena fatua* populations. *Pestic. Biochem. Physiol.* 57, 79-85.
- Rashid, A. et al.**, (1997) Response of *trilalate*-resistant and -susceptible wild oat populations to *difenzoquat* and *EPTC* in a seedling bioassay. *Weed Technol.* 11, 527-531.
- O'Donovan, J.T., **Rashid, A.**, Nguyen, H.V., Newmann, J.C., Khan, A.A., Johnson, C.I., Blackshaw, R.E., and Harker, K.N. (1996) A seedling bioassay for assessing the response of wild oat populations to *trilalate*. *Weed Technol.* 10, 931-935.
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#### Manuscript under review

Gines, M., Baldwin, T., **Rashid, A.**, Klos, K., Bregitzer, P., Jellen, E., Maughan, M. Identification and validation of superior reference genes for barley using *in silico* analysis. MS under review

#### Client reports

**Rashid, A., Davies, M., Barrett, M., Palli, R.** (2013). "Keeping the Genie in the Bottle": placing transgenic agronomic traits under the control of 'gene switch' technology to facilitate phenotype containment. KTRDC Annual Report, Univ. of Kentucky, Lexington, Kentucky, USA.

**Rashid, A.** and O'Donovan, J.T. (2001). Defining Climatic factors that reduce crop tolerance and weed control with herbicides. AARI Final Report; Project # 98M218,

**Rashid, A.** (2001). Effects of cold temperatures on crop tolerance to the herbicides, *sulfosulfuron* and *glyphosate*. Final Report, Monsanto Canada Inc.

**Rashid, A.** (1996-2001). Herbicide damage diagnostic, and herbicide residue and resistance detection services. >100 reports provided to Producers, and Alberta Environmental Protection, Edmonton, Alberta, Canada.

**Rashid, A.** (2000). Development of a bioassay for Pursuit® (*imazethapyr*) residues in soil, and investigation of Pursuit® carryover injury to sensitive rotational crops. Report to Westco Fertilizers Ltd., Canada.

O'Donovan, J.T., Pharris, R.P., Zhang, R., **Rashid, A.**, and Harker, K.N. (1998). Role of plant hormone gibberellins in wild oat resistance to herbicides. AARI Final Report, Project # 97M164, Alberta, Canada

O'Donovan, J.T., Harker, K.N., Blackshaw, R.E., **Rashid, A.**, Sharma, M.P., Khan, AA., and Maurice, D. (1997). Investigation of herbicide resistant wild oat populations in Alberta. AARI Final Report. Project # 920037, Alberta, Canada.

#### Abstracts and presentations

**Rashid, A. et al.**, (2017). Genetic improvement of barley through chemical mutagenesis and cross-breeding techniques. Presented at the USDA-ARS PWA, Aberdeen, Idaho; June 13<sup>th</sup> 2017.

**Rashid, A. et al.**, (2016). Fast high-quality single-seed RNA extraction from sprouted malting barley rich in polysaccharides Presented at the 12<sup>th</sup> International Barley Genetic Symposium, Minneapolis, MN; June 26-30, 2016; Abstract #155.

**Rashid, A.** (2014). Management of imidazolinone herbicide tolerance trait in crop plants: Application of an externally regulated genetic switch. Presented at the KTRDC, Univ. of Kentucky, Lexington, KY; February 12<sup>th</sup>, 2014.

Deyholos, M.K., **Rashid, A. et al.** (2013). The intrinsically disordered Pan-Proteome, and characterization of growth promoting IDPs. Abstract #78, ASPB meeting (Western Section) April 12-13, 2013; University of California, Davis.

**Rashid, A.** (2012). Constitutive expression of putative blackleg resistance genes of *Arabidopsis thaliana* in an elite canola cultivar for resistance against blackleg disease: A project proposal presented to the Dept. of Agriculture, Food and Nutritional Sciences, Univ. of Alberta/Alberta Agriculture, Edmonton, Alberta, Canada; November 30<sup>th</sup> 2012.

**Rashid A. et al.** (2011). Effect of a wide range of pH values on resting spore germination and clubroot (*Plasmodiophora brassicae*) severity on canola. Abstract # 8; presented at the 32<sup>nd</sup> Annual

Meeting of the Plant Pathology Society of Alberta, Univ. of Alberta, Edmonton, AB. Canada. November 7-9, 201.

- Rashid, A.** (2011). Bioinformatics and mutational analysis of *PELPK1* in *Arabidopsis thaliana*. Presented at the Dale Bumpers National Rice Research Center, USDA-ARS, East Stuttgart, Arkansas.
- Rashid, A.** (2006). Development of Golden Rice through plant genetic engineering. Botany 600 presentation. Dept. of Biol. Sciences, Univ. of Alberta, Edmonton, Alberta, Canada.
- Rashid, A.** (2005). How herbicides work: classification, mode of action and resistance. Botany 600 presentation. Dept. of Biol. Sciences, Univ. of Alberta, Edmonton, Alberta, Canada.
- Rashid, A.** (2003). Factors affecting glyphosate performance. Presented at the producers meeting, Lakeland Agricultural Research Association (LARA), Bonnyville, Alberta, Canada.
- Rashid, A.** (2003). Recognizing herbicide action and injury. Presented at the Annual General Meeting, Lakeland Agricultural Research Association, Ashmont, Alberta, Canada.
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- Rashid, A., et al.**, (2001). Sulfonylurea resistant spiny annual sowthistle populations can be managed with alternative herbicides. Abstract #5; Proc. Expert Comm. Weeds, Quebec City, Canada
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- Rashid, A.** (2001) Herbicide related issues in Alberta: an overview. Presented at the Regional Agricultural Crop Specialists and Fieldmen, ARC, Vegreville, Alberta, Canada.
- Rashid, A. and Checkel, S.** (2001). Factors affecting barley tolerance to graminicides. Presented at the Board of Directors, Alberta Barley commission, Alberta, Canada
- Rashid, A and Checkel, S.** (2001). Plant bioassay techniques for detecting Pursuit® (*imazethapyr*) residues in soil. On Farm Demo., Parkland Conservation Farm, Alberta, Canada.
- Rashid, A. and Checkel, S.** (2001). A barley bioassay for detecting Everest® (*flucarbazone-sodium*) residues in various soil types of Alberta. Demonstrated at the Board of Directors meeting, Alberta Barley commission, Alberta, Canada.
- Rashid, A.** (2001). An overview of herbicide research at Alberta Research Council in Vegreville. Presentation at the ARC Connect Conference, Leduc, Alberta.
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- Rashid, A.** (1999). Effects of herbicides on weeds. Presented to the students of Environmental Toxicology, Lakeland College, Vermillion, Alberta.
- Rashid, A. and Sharma, M.P.** (1999). Herbicide carryover: Development of sensitive bioassay and Field investigation. Presented at the Westco ACES Agronomy Meeting, Edmonton, Alberta.
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**Rashid, A.** (1995-2002). Updates on herbicide research at the Alberta Research Council in Vegreville, Alberta. Yearly reports presented at the Alberta Weed Advisory Committee (AWAC) meetings, Edmonton, Alberta, Canada.