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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.

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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.

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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 13th 2017.

Rashid, A. et al., (2016). Fast high-quality single-seed RNA extraction from sprouted malting barley rich in polysaccharides Presented at the 12th 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 12th, 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 30th 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 32nd 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.
- Rashid, A.** (2002). Herbicide damage diagnostic clinic at the Alberta Research Council in Vegreville. Presented at the ARC-Connect Conference, Leduc, Alberta, Canada.
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- 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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