

# Publications for Robert McIntosh

## 2018

Marchal, C., Zhang, J., Zhang, P., Fenwick, P., Steuernagel, B., Adamski, N., Boyd, L., McIntosh, R., Wulff, B., Berry, S., et al (2018). BED-domain-containing immune receptors confer diverse resistance spectra to yellow rust. *Nature Plants*, 4(9), 662-668. <a href="http://dx.doi.org/10.1038/s41477-018-0236-4">[More Information]</a>

Qureshi, N., Bariana, H., Zhang, P., McIntosh, R., Bansal, U., Wong, D., Jubcovsky, J., Shankar, M. (2018). Genetic relationship of stripe rust resistance genes Yr34 and Yr48 in wheat and identification of linked KASP markers. *Plant Disease*, 102(2), 413-420. <a href="http://dx.doi.org/10.1094/PDIS-08-17-1144-RE">[More Information]</a>

McIntosh, R., Mu, J., Han, D., Kang, Z. (2018). Wheat stripe rust resistance gene Yr24/Yr26: A retrospective review. *The Crop Journal*, 6(4), 321-329. <a href="http://dx.doi.org/10.1016/j.cj.2018.02.001">[More Information]</a>

## 2017

Hewitt, T., Zhang, J., Zhang, P., Park, R., Upadhyaya, N., McIntosh, R., Wulff, B., Steuernagel, B., Lagudah, E. (2017). Characterisation of pleiotropic leaf rust resistance gene Lr13. *QMB Satellite Plant-Microbe Interactions*, Queenstown: QMB Satellite.

Zhang, P., Dundas, I., Xu, S., Friebe, B., McIntosh, R., Raupp, W. (2017). Chromosome engineering techniques for targeted introgression of rust resistance from wild wheat relatives. In Sambasivam Periyannan (Eds.), *Wheat Rust Diseases: Methods and Protocols*, (pp. 163-172). New York: Humana Press. <a href="http://dx.doi.org/10.1007/978-1-4939-7249-4\_14">[More Information]</a>

Zhang, P., McIntosh, R., Hoxha, S., Dong, C., Forrest, K., Hayden, M. (2017). Four stripe rust resistance genes at or close to the Yr5/Yr7 locus in wheat. *13th International Wheat Genetics Symposium IWGS*, Austria: BOKU - University of Natural Resources and Applied Life Sciences.

Zhang, J., Hewitt, T., Zhang, P., Pretorius, Z., Park, R., Upadhyaya, N., Schnippenkoetter, W., Dundas, I., McIntosh, R., Mago, R., Hoxha, S., Lagudah, E., et al (2017). Molecular organization of long lasting wheat stem rust resistance gene Sr26 introgressed from *Thinopyrum ponticum*. *QMB Satellite Plant-Microbe Interactions*, Queenstown: QMB Satellite.

Zhang, J., Hewitt, T., Zhang, P., Pretorius, Z., Park, R., Upadhyaya, N., Schnippenkoetter, W., Dundas, I., McIntosh, R., Mago, R., Hoxha, S., et al (2017). Molecular organization of wheat stem rust resistance locus Sr26 introgressed from *Thinopyrum ponticum*. *13th International Wheat Genetics Symposium IWGS*, Austria: BOKU - University of Natural Resources and Applied Life Sciences.

Upadhyaya, N., Xu, B., Chen, J., Mago, R., Zhang, P., McIntosh, R., Park, R., Ellis, J., Dodds, P. (2017). Use of virulence mutants in identifying wheat stem rust Avr genes. *13th International Wheat Genetics Symposium IWGS*, Austria: BOKU - University of Natural Resources and Applied Life Sciences.

## 2016

Dracatos, P., Zhang, P., Park, R., McIntosh, R., Wellings, C. (2016). Complementary resistance genes in wheat selection 'Avocet R' confer resistance to stripe rust. *Theoretical and Applied Genetics*, 129(1), 65-76. <a href="http://dx.doi.org/10.1007/s00122-015-2609-7">[More Information]</a>

Zhang, P., Hiebert, C., McIntosh, R., McCallum, B., Thomas, J., Hoxha, S., Singh, D., Bansal, U. (2016). The relationship of leaf rust resistance gene Lr13 and hybrid necrosis gene Ne2m on wheat chromosome 2BS. *Theoretical and Applied Genetics*, 129(3), 485-493. <a href="http://dx.doi.org/10.1007/s00122-015-2642-6">[More Information]</a>

## 2015

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Darino, M., Dieguez, M., Singh, D., Ingala, L., Pergolesi, M., Park, R., McIntosh, R., Sacco, F. (2015). Detection and location of Lr11 and other leaf rust resistance genes in the durably resistant wheat cultivar Buck Poncho. *Euphytica*, 206(1), 135-147. <a href="http://dx.doi.org/10.1007/s10681-015-1486-0">[More Information]</a>

Hiebert, C., Zhang, P., McCallum, B., Thomas, J., Hoxha, S., McIntosh, R. (2015). Genetic analysis of Lr13 and Ne2. *14th International Cereal Rusts and Powdery Mildews Conference 2015*, Denmark: The European and Mediterranean Cereal Rusts Foundation.

Zhang, P., Dracatos, P., Park, R., McIntosh, R., Wellings, C. (2015). Molecular cytogenetic characterisation of wheat lines carrying the YrA resistance to stripe rust. *BGRI 2015 Technical Workshop*, Sydney: BGRI 2015.

Mago, R., Zhang, P., Vautrin, S., Simkova, H., Bansal, U., Luo, M., Rouse, M., Karaoglu, H., Periyannan, S., Kolmer, J., Bariana, H., Park, R., McIntosh, R., et al (2015). The wheat Sr50 gene reveals rich diversity at a cereal disease resistance locus. *Nature Plants*, 1, 1-3. <a href="http://dx.doi.org/10.1038/nplants.2015.186">[More Information]</a>

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## 2014

Hurni, S., Brunner, S., Stirnweis, D., Herren, G., Peditto, D., McIntosh, R., Keller, B. (2014). The powdery mildew resistance gene Pm8 derived from rye is suppressed by its wheat ortholog Pm3. *Plant Journal*, 79(6), 904-913. <a href="http://dx.doi.org/10.1111/tpj.12593">[More Information]</a>

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resistance gene combinations. *12th International Wheat Genetics Symposium*, Kyoto: Kyoto University Press.

Periyannan, S., Moore, J., Ayliffe, M., Bansal, U., Wang, X., Huang, L., Deal, K., Luo, M., Kong, X., Bariana, H., McIntosh, R., et al (2013). The Gene Sr33, an Ortholog of Barley Mla Genes, Encodes Resistance to Wheat Stem Rust Race Ug99. *Science*, 341(6147), 786-788. <a href="http://dx.doi.org/10.1126/science.1239028">[More Information]</a>

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Mago, R., Tabe, L., McIntosh, R., Pretorius, Z., Kota, R., Paux, E., Wicker, T., Breen, J., Lagudah, E., Ellis, J., et al (2011). A multiple resistance locus on chromosome arm 3BS in wheat confers resistance to stem rust (Sr2), leaf rust (Lr27) and powdery mildew. *Theoretical and Applied Genetics*, 123(4), 615-623. <a href="http://dx.doi.org/10.1007/s00122-011-1611-y">[More Information]</a>

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McIntosh, R., Zhang, P., Cowger, C., Parks, R., Lagudah, E., Hoxha, S. (2011). Rye-derived powdery mildew resistance gene Pm8 in wheat is suppressed by the Pm3 locus. *Theoretical and Applied Genetics*, 123(3), 359-367. <a href="http://dx.doi.org/10.1007/s00122-011-1589-5">[More Information]</a>

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Zhang, J., Wellings, C., McIntosh, R., Park, R. (2010). Seedling resistances to rust diseases in international triticale germplasm. *Crop and Pasture Science*, 61(12), 1036-1048. <a href="http://dx.doi.org/10.1071/CP10252">[More Information]</a>

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Characterisation of stem rust and stripe rust seedling resistance genes in selected wheat cultivars from the United Kingdom. *Journal of Plant Pathology*, 90(3), 553-562.

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Singh, D., Park, R., McIntosh, R. (2007). Characterisation of wheat leaf rust resistance gene Lr34 in Australian wheats using components of resistance and the linked molecular marker csLV34. *Crop and Pasture Science*, 58(11), 1106-1114. <a href="http://dx.doi.org/10.1071/AR07002">[More Information]</a>

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Park, R., McIntosh, R., Singh, D. (2001). Postulation of leaf (brown) rust resistance genes in 70 wheat cultivars grown in the United Kingdom. *Euphytica*, 120, 205-218.

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