

## Journal of Plant Pathology

Secondary Metabolite Gene Clusters from the phytopathogenic fungus *Gaeumannomyces tritici*

Felipe Geremia <sup>1</sup>, Igor Paim <sup>1</sup>, Matheus da Silva Camargo <sup>1</sup>, Augusto Schrank <sup>1</sup>, Nicolau Sbaraini <sup>1, 2\*</sup>

<sup>1</sup> Programa de Pós-graduação em Biologia Celular e Molecular, Centro de Biotecnologia, Universidade Federal do Rio Grande do Sul, Porto Alegre, RS, Brazil.

<sup>2</sup> School of Molecular Sciences, The University of Western Australia, Perth, WA 6009, Australia.

\*Correspondence: Nicolau Sbaraini (nicolau.sbarainioliveira@uwa.edu.au)

log2FC and -log padj values of GtPKS1 BGC genes when wheat roots infected with *G. tritici* (Wr\_Gt), and infected with *G. tritici* in the presence of the biocontrol agent *B. velezensis* (Wr\_Gt\_Bv) were compared with *G. tritici* grown on potato dextrose agar plates (Pda\_Gt).

| GtPKS1 BGC     |            |                |                |                   |                   |
|----------------|------------|----------------|----------------|-------------------|-------------------|
| Protein ID     | Gene Code  | log2FC         | -log padj      | log2FC            | -log padj         |
|                |            | Wr_Gt x Pda_Gt | Wr_Gt x Pda_Gt | Wr_Gt_Bv x Pda_Gt | Wr_Gt_Bv x Pda_Gt |
| XP_009229201.1 | GGTG_13035 | 8,003416864    | 53,58879163    | 7,546784301       | 47,18414157       |
| XP_009229202.1 | GGTG_13036 | 3,694428173    | 13,75160637    | 3,434560473       | 11,76586258       |
| XP_009229203.1 | GGTG_13037 | 1,400208984    | 2,123441854    |                   |                   |
| XP_009229204.1 | GGTG_13038 |                |                |                   |                   |
| XP_009229205.1 | GGTG_13039 | 5,22847609     | 6,1936205      | 3,362893813       | 2,700442571       |
| XP_009229206.1 | GGTG_13040 | 5,608586472    | 5,826966697    | 3,741270159       | 2,727505054       |
| XP_009229207.1 | GGTG_13041 | 5,457098342    | 10,21935429    | 3,991969682       | 5,444219523       |
| XP_009229208.1 | GGTG_13042 | 4,187517478    | 10,9091619     | 2,245543083       | 3,286912443       |

 Backbone enzyme