1. ABOUT THE DATASET

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Title: Supplementary materials for the thesis "Investigating durable resistance to Phytophthora cactorum in strawberry and apple"

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Rights-holder(s): National Institute of Agricultural Botany (NIAB)

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Description: Dataset containing the supplementary material in support of the PhD thesis "Investigating durable resistance to Phytophthora cactorum in strawberry and apple". These include the details of individual genotypes, linkage maps, markers and QTL loci used and resulted from mapping experiments. They also include details of the RNA sequencing results from various experiments including sequencing and alignment quality, and differential expression analysis results. Also included are the results of gene set enrichment analysis performed on differentially expressed gene sets.

Cite as: Matteo Luberti (2023): Supplementary materials for the thesis "Investigating durable resistance to Phytophthora cactorum in strawberry and apple". University of Reading. Dataset. http://dx.doi.org/10.17864/1947.000460

Related publication: Luberti, M. (2023) Investigating resistance mechanisms to Phytophthora cactorum in strawberry and apple. PhD thesis, University of Reading. https://doi.org/10.48683/1926.00112276

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2. TERMS OF USE

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3. PROJECT AND FUNDING INFORMATION

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Title: Investigating durable resistance to Phytophthora cactorum in strawberry and apple. PhD project

Dates: 2018-2022

Funding organisation: University of Reading, National Institute of Agricultural Botany (NIAB. The NIAB portion of the funding is provided in part by the BBSRC and in part by the Collaborative Training Partnership for Fruit Crop Research (CTP-FRC)

Grant no.:

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LUBERTI\_SupplementaryTables.xlsx

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5. METHODS

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The dataset contains information on the materials used and results obtained from mapping experiments on apple populations to identify loci associated with resistance to the pathogen Phytophthora cactorum. Also contains the results of the transcriptome sequencing and differential analysis of a timecourse experiment of infection of apple and strawberry with Phytophthora cactorum. Methods are detailed in the thesis "Investigating durable resistance to Phytophthora cactorum in strawberry and apple"