Metabolic pathways of the diseased potato

Gary D. Lyon

Comments and additional information should be sent to: GaryDavidLyon@gmail.com

Chart can be viewed on the internet at www.potatometabolicpathways.webs.com

Balloon et al. (2017) | identified 28678 NB-LRR and 600 CC-NB-LRR sequences in S. tuberosum ssp. tuberosum

Cultivated potato breeding programs tend to systematically select for increased resistance responses.

In plants, calcium-dependent protein kinases (CDPKs) are modulated by changes in [Ca2+]cyt and activated.

Enzyme-coupled Ca-phosphorylation assay: 1.5–2 h (proteins in crude extracts)

Ca-dependent protein kinase activity

Protein phosphorylation

Ca-binding protein

Ca-dependent protein kinase

Ca-dependent protein kinase activity

Ca-dependent protein kinase activity

Ca-dependent protein kinase activity