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
and www.dratsic.org.uk

Balbon et al. (2017) identified 284 FBX-SKB-LRR and 63 CC-NB-LRR sequences in S. tuberosum ssp. tuberosum

Cellwalls-Biotic breaking proteins binds to carbohydrate active transferases and inactivates them

In plants, calcium-dependent protein kinases (CDPKs) are modulated by changes in Ca2+ concentration

Enzyme-coated by phytophthora protease: 1.6- 3.1 Cysteine proteases

Protease inhibitors

Protein phosphorylation

Ethylene is perceived by membrane-bound receptors (ETR1, ETR2, ERS1, ERS2, EIN4) that are homologous to bacterial two-component histidine kinases

Ethylene signal transduction

Ethylene biosynthesis

Ethylene biosynthesis from methionine

Ethylene biosynthesis from methionine

Ethylene biosynthesis from methionine