

# Metabolic pathways of the diseased potato

Gary D. Lyon

Comments and additional information should be sent to: Gary.David.Lyon@gmail.com  
Chart can be viewed on the internet at [www.potato-metabolicpathways.weebly.com](http://www.potato-metabolicpathways.weebly.com)  
and [www.drastic.org.uk](http://www.drastic.org.uk)

Protein phosphorylation

Ceramide signalling

Choline and phosphatidylcholine biosynthesis

Phenylpropanoid cascade

Shikimate pathway

Fallic acid and thymine pathway

Phenylpropanoid biosynthesis

Mevalonate pathway

Sesquiterpene phytoalexin biosynthesis

Fatty acid degradation

Other genes or proteins up-regulated by wounding or infection but not yet included in pathways

Abbreviations

Ethylene biosynthesis

Purine biosynthesis

Glycoalkaloids

Lipoxygenase  
Lipid peroxidation

Oxylipin pathway

Legend and detailed notes for various metabolic pathways and enzymes shown in the diagram.