

Redox regulation of metabolism in asthma

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Propositions accompanying the dissertation

Redox regulation of metabolism in asthma

New insights into the roles of Glutathione-S-transferase P

Cheryl van de Wetering

Maastricht, 2021

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1. Altered cell metabolism, notably in the glycolysis pathway, contributes to the pathophysiology of asthma. [*this dissertation*]
 2. Glutathione-S-transferase P-dependent modulation of redox homeostasis contributes to disturbed cell metabolism. [*this dissertation*]
 3. Oxidation of Pyruvate Kinase M2 reduces its glycolytic activity, which contributes to asthma pathogenesis. [*this dissertation*]
 4. Interleukin-1 β promotes increases in glycolysis leading to an inflammatory response in epithelial cells in association with neutrophilic asthma. [*this dissertation*]
 5. Asthma patients deserve personalized medicine. [*Fahy, 2017*]
 6. Lactate is more than a metabolic waste product. [*Brooks, 1984*]
 7. The best views come after the hardest climbs.
 8. If you can't explain it simply, you don't understand it well enough. [*Albert Einstein*]
 9. A shift in focus from perfection to progress can put you on a path to success.
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