

The Warburg effect: a phenomenon of cancer cell metabolism yet poorly understood

• The Warburg effect in cancer cells consists of an increase in aerobic glycolysis and enhanced lactate production.

• Aerobic glycolysis provides not only ATP but also glycolytic intermediates as precursors for anabolic biosynthesis.

• Interestingly, leukemia cells are also highly glycolytic, despite residing within the bloodstream at higher oxygen tensions than cells in most normal tissues.

• Detailed mechanisms underlying the metabolic switch to glycolysis and coordination between glycolysis and anabolic biosynthesis remain unclear.



Dr. Otto Warburg (1883-1970)



























