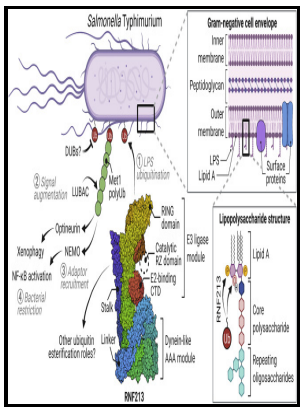
Bacterial lipids.

Hermann - Bacterial lipids: Metabolism and membrane homeostasis



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Chemistry of natural products (Editions scientifiques Hermann) ; 4
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Notes: Bibliography: p. [337]-372.
This edition was published in 1966

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Bacterial lipid diversity

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Bacterial lipid diversity

Sulfoquinovosyl diacylglycerol SQD synthesis A special GL is the anionic lipid SQD which is widely distributed in photosynthetic organisms. For some time it was thought that the minimum structure for cell viability in E.

Bacteria as sources of (commercial) lipids

Apparently, some bacteria can replace their phospholipids with membrane lipids devoid of phosphorus. They showed that essential processes of membrane biogenesis and organelle assembly were functional in this strain Riekhof et al.

Lipid A

Pseudomonas aeruginosa MprF is responsible for APG formation and the AtvA homolog PA0919 has been shown to cause the hydrolysis of APG and formation of PG and alanine. On an experimental level, this is probably the best hint that DGTS can functionally replace PC in the membrane. Other membrane lipids present in bacteria such as OLs, sulfonolipids, HOPs or sphingolipids SLs do not present a DAG backbone.

Lipid A

Mitchell or Proton Extrusion Hypothesis The Mitchell hypothesis explains the energy conservation in all cells on the basis of the selective extrusion of H + ions across a proton-impermeable membrane, which generates a proton motive force. Similarly, the lipid A components in bacteria from extreme environments can differ appreciably in structure from the norm, and they together with their biosynthetic enzymes are being studied for their potential therapeutic value. This is considered to be the model symbiotic immunomodulatory molecule that confers benefits to the host in respect of autoimmune, inflammatory and infectious diseases.

Host ubiquitin protein tags lipid to fight bacteria

Electron Transport and Oxidative Phosphorylation In the final stage of respiration, ATP is formed through a series of electron transfer reactions within the cytoplasmic membrane that drive the oxidative phosphorylation of ADP to ATP. The activation threshold of ProP correlates with the amount of CL present in the membrane and its presence controls the amount and activity of the proline transporter ProP Romantsov et al.

Bacterial lipid diversity

Interestingly, the energy source for such organisms is the oxidation of specific inorganic compounds.

Bacterial lipids: powerful modifiers of the innate immune response

Examples are phosphatidylethanolamine PE , phosphatidylglycerol PG , cardiolipin CL , lysyl-phosphatidylglycerol LPG , phosphatidylinositol PI , phosphatidic acid PA and phosphatidylserine PS. To sum up, an economically feasible production of bacterial lipids ideally requires robust and fast-growing strains. This basic research provided a blueprint for the biochemistry of lipid metabolism that has largely defined the individual steps in bacterial fatty acid and phospholipids synthesis.

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