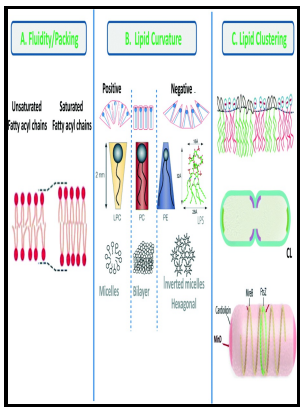
Bacterial lipids.

Hermann - Lipid A



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

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Tags: #Bacterial #Metabolism

Bacteria as sources of (commercial) lipids

In the lipid A illustrated from the most studied organism E.

Bacterial Lipid Research and Development

Abbreviations: G3P-glycerol-3-phosphate; LPA-lysophosphatidic acid; PA-phosphatidic acid; DAG-diacylglycerol; CDP-DAG-cytidine diphosphate-diacylglycerol; PS-phosphatidylserine; PE-phosphatidylethanolamine; MMPE-monomethyl PE; DMPE-dimethyl PE; PC-phosphatidylcholine; LPC-lysophosphatidylcholine; GPC-glycerophosphocholine; PGP-phosphatidylglycerol phosphate; PG-phosphatidylglycerol; CL-cardiolipin; LCL-lysyl-cardiolipin; ACL-alanyl-cardiolipin; LPG-lysyl-phosphatidylglycerol; APG-alanyl-phosphatidylglycerol; ArPG-arginyl-phosphatidylglycerol; PIP-phosphatidylinositol phosphate; PI-phosphatidylinositol; PIM-phosphatidylinositol mannoside; PIM 2-phosphatidylinositol dimannoside; Ac 1PIM 2-acyl PIM 2; Ac 2PIM 2-diacyl PIM 2; DGHS-diacylglyceryl homoserine; DGTS-diacylglyceryl- N, N, N-trimethylhomoserine; SQD-sulfoquinovosyl diacylglycerol; GTF-glycosyltransferase. Many bacterial genomes present several genes encoding putative Cls; for example, E.

Lipid A

Looking for the presence of either the Pmt or the Pcs pathway in bacteria using genomic sequence data, it has been estimated that about 15% of bacteria are probably able to form PC Sohlenkamp, López-Lara and Geiger ; Geiger, López-Lara and Sohlenkamp.

Bacterial Lipids

This remodeling is not a minor process because PC makes up for about 60% of membrane lipids when bacteria are cultivated on complex medium, whereas in minimal medium under limiting phosphate conditions DGTS increases to about 60% Geiger et al.

Lipid A

Usually, the outer leaflet of the outer membrane is formed by lipid A, the lipophilic anchor of lipopolysaccharide LPS Raetz and Dowhan ; Raetz et al. Lignocellulose from agricultural, industrial and forest residuals represents the worldwide largest and cheapest resource of sugars with about 4. Thank you for visiting nature.

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