

The Pho regulons of bacteria

Vershinina O., Znamenskaya L.

Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

Bacterial Pho regulons contain genes whose products are involved in the transport and assimilation of inorganic phosphate. The expression of these genes is regulated by a specific two-component signal transduction system. The paper summarizes data on the organization and function of Pho regulons in gram-negative and gram-positive bacteria, with particular emphasis on the Pho regulons of the best studied bacteria *Escherichia coli* and *Bacillus subtilis*. © 2002 MAIK "Nauka/Interperiodica".

<http://dx.doi.org/10.1023/A:1020547616096>

Keywords

B. subtilis, *E. coli*, Phosphate regulation, Signal transduction