



Molecular Biotechnology Programme
Uppsala University School of Engineering

UPTEC X 01 022	Date of issue 2001-05	
Author Caroline Pérez		
Title (English) Expression profiling of <i>Helicobacter pylori</i> based on microarray		
Title (Swedish)		
Abstract <p><i>Helicobacter pylori</i> colonizes the gastric mucosa where it will induce chronic gastric inflammation, which can progress to superficial gastritis, peptic ulcer and gastric cancer. <i>Helicobacter pylori</i> exists in two different forms, a rod-like shape and a coccoid form. What kind of functions this form has and its significance in infection is still not fully known. To study the virulence of <i>H. pylori</i> in the coccoidal form, mRNA-levels in a large quantity of <i>Helicobacter pylori</i> genes were detected using the microarray technique. For this purpose 85 different <i>H. pylori</i> genes, mostly virulence genes and metabolic genes, of strain 26695 were selected and investigated by array hybridisations. Difficulties appeared as the hybridisations were inhibited by contaminants, presumably from the cell debris or the media, in the RNA preparations. This study demonstrates the great importance of the purity of the RNA and further improvements of the preparation of RNA are required.</p>		
Keywords <i>Helicobacter pylori</i> , rod-like shape, coccoid form, microarray technique, hybridisation, RNA		
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Project name	Sponsors	
Language English	Security	
ISSN 1401-2138	Classification	
Supplementary bibliographical information	Pages 24	
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