THE EXPRESSION PROFILE OF LNCRNAS AND THEIR RELATIONSHIP WITH H.PYLORI.

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Microarray analysis identified differential long non-coding RNA expression profiles across gastric precancerous lesions, with two LncRNAs upregulated in H. pylori-positive chronic atrophic gastritis.

KEY POINTS

- 79 upregulated and 25 downregulated LncRNAs were identified in chronic atrophic gastritis compared to chronic superficial gastritis, with progressively more aberrant transcripts in intestinal metaplasia (403 up, 283 down), dysplasia (219 up, 159 down), and gastric cancer (1276 up, 904 down).
- Two LncRNAs, XR_001746081 and XR_940570, were validated by qRT-PCR as upregulated in H. pylori-positive chronic atrophic gastritis samples compared to chronic superficial gastritis.
- Pathway analysis showed upregulated LncRNAs were involved in metabolic and digestive processes, while downregulated LncRNAs were involved in gastric acid secretion, cancer, and cAMP signaling pathways.
- The authors suggest XR_001746081 and XR_940570 might play a role in the pathological progression from chronic superficial gastritis to chronic atrophic gastritis with H. pylori infection.

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