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### Basic Study

**Glycosylation-related gene expression in HT29-MTX-E12 cells upon infection by *Helicobacter pylori***

Cairns MT *et al.* Gene expression response to *H. pylori* infection

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Glycosylation-related gene expression in HT29-MTX-E12 cells upon infection by I

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Both *C. jejuni* and *H. pylori* bound to HT29-MTX-E12 mucus, and while both ... infection and emphasizes the potential for even closely related bacteria to ... Muc2 has been shown to have an effect on virulence gene expression (15). ... This study also emphasizes that glycans present on host mucins and other glycosylated ...

[FIG 4 Infection of HT29, HT29-MTX, and HT29-MTX-E12 cells by ...](https://www.researchgate.net/.../236958709_fig4)

[https://www.researchgate.net/.../236958709\\_fig4](https://www.researchgate.net/.../236958709_fig4) FIG-4-Infection-of-HT29-HT29-MTX-and-HT29-MTX-E12-cells-by-mucosal-pathogens-The

In contrast, *H. pylori* colonized HT29-MTX-E12 cells and, to a much lesser extent, .... They comprised mainly core 1- and core 2-related structures, with a high ... The expression and glycosylation of mucins differ depending on a number of ... now the J. Craig Venter Institute) for all three strains, the gene locations differ (11) .

[The Interaction of Helicobacter pylori with the Adherent Mucus Gel ...](https://journals.plos.org/plosone/article?id=10.1371/journal.pone...)

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8 Oct 2012 ... Cell culture models for *H. pylori* infection do not normally possess a mucus ... The adherent mucus layer of HT29-MTX-E12 cells contained the ... Frozen sections of cells were fixed on slides with 2% formalin for 10 .... For detection of the interaction of TFF1 expressed in HT29-MTX-E12 cells with *H. pylori* ...

[Interaction of microbes with mucus and mucins: Recent ...](https://www.tandfonline.com/doi/full/10.4161/gmic.26680)

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2 Oct 2013 ... Using a combination of mucus secreting cells, and a novel mucin ..... expression of mucin genes or to alter the glycosylation profile of the mucin. .... and a subclone of those cells HT29-MTX-E12 (E12) cells which form an ... Thus, either *H. pylori* increases expression of factors that mediate infection upon ...



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[FIG 4 Infection of HT29, HT29-MTX, and HT29-MTX-E12 cells by ...](#)

[https://www.researchgate.net/publication/236958709\\_fig4\\_FIG-4-Infection-of-HT29-HT29-MTX-and-HT29-MTX-E12-cells-by-mucosal-pathogens-T...](https://www.researchgate.net/publication/236958709_fig4_FIG-4-Infection-of-HT29-HT29-MTX-and-HT29-MTX-E12-cells-by-mucosal-pathogens-T...)

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[Interaction of microbes with mucus and mucins: Recent developments](#)

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2 Oct 2013 ... We showed that despite being closely related, these two bacteria ... On the other hand, *H. pylori* did not interact with HT29 cells and ... Thus, either *H. pylori* increases expression of factors that mediate infection upon ... mucus layer of HT29MTXE12 cells attenuates *Campylobacter jejuni* virulence properties ...

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8 Oct 2012 ... Cell culture models for *H. pylori* infection do not normally possess a mucus layer. ... The adherent mucus layer of HT29-MTX-E12 cells contained the ... For experiments cells were grown for up to 21 days on Transwell .... For detection of the interaction of TFF1 expressed in HT29-MTX-E12 cells with *H. pylori* ...