



Trending Topics in Escherichia coli Research pp 79–106 | [Cite as](#)

[Home](#) > [Trending Topics in Escherichia coli Research](#) > [Chapter](#)

New Molecular Mechanisms of Virulence and Pathogenesis in *E. coli*

[Fernando Navarro-García](#) , [Antonio Serapio-Palacios](#), [Bertha González-Pedrajo](#), [Mariano Larzábal](#), [Nora Molina](#) & [Roberto Vidal](#)

Chapter |

246 Access

Chapter

Roberto Vidal

Instituto de Ciencias Biomédicas, Universidad de Chile, Santiago, Chile

[View author publications](#)

You can also search for this author in

[PubMed](#) | [Google Scholar](#)

The rapid progress in diverse approaches and technologies such as genome sequencing, gene mutation, site-directed mutagenesis, proteomics, crystallography, high-throughput screening and cryo-electron microscopy has provided unprecedented knowledge regarding novel functions during *E. coli* pathogenesis. In this chapter, we discuss six novel mechanisms of virulence and pathogenesis into the different *E. coli* pathotypes. These mechanisms include