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2.3. Adherent-Invasive E. coli. Over the last 10–15 years, the microbe that has attracted the most attention, with respect to CD etiology, is **Escherichia coli** [32, 33]. Overgrowth of E. coli population in inflammatory bowel disease patients is currently unexplained but may be related to increased production of reactive nitrogen species allowing nitrate respiration, which confers E. coli a ...

Cited by: 22

Author: Allison Agus, Allison Agus, Sébastien Ma...

Publish Year: 2014



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Name of Journal: *World Journal of Biological Chemistry*

Manuscript NO: 53536

Manuscript Type: REVIEW

Why the discovery of adherent-invasive *Escherichia coli* molecular markers is so challenging?

Carla Camprubí-Font,<sup>2</sup> Margarita Martinez-Medina

Adherent-invasive *Escherichia coli* (AIEC) strains have been extensively related to Crohn's disease (CD) etiopathogenesis. Higher AIEC prevalence in CD patients versus controls has been reported, and its mechanisms of pathogenicity have been linked to CD physiopathology. In CD, the therapeutic armamentarium remains limited and non-curative; hence, the necessity to better understand AIEC as a putative instigator or propagator of the disease is certain. Nonetheless, AIEC identification is currently challenging because it relies on phenotypic assays based on infected cell cultures which are highly time-consuming, laborious and non-standardizable. To address this issue, AIEC molecular mechanisms and virulence genes have been studied; however, a specific and widely distributed genetic AIEC marker is still missing. The finding of molecular tools to easily identify AIEC could be useful in the



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Cited by: 233

Author: Kenneth W. Simpson, Belgin Dogan, Mar...

Publish Year: 2006