

Dr. Alfonso Clemente



Alfonso Clemente (PhD, MSc), biochemist, is a senior research scientist of the Spanish National Research Council (CSIC), working at the Estación Experimental del Zaidín. He has worked in several internationally recognized institutions from UK, including the Institute of Food Research (1999-2000), John Innes Centre (2001-2003) and Sainsbury Laboratory (2003-2004). His current work is mainly focused in the protective role of dietary compounds and their

potential effects in gastrointestinal health by using a wide array of *in vitro* and *in vivo* model systems. In particular, Dr Clemente mainly works in a) the anti-carcinogenic and anti-inflammatory properties of dietary resistant proteins and derived peptides within the gastrointestinal tract; and b) the relevance of oligosaccharides from several sources, including goat's milk, as prebiotics and their role in gut health. He has published over 70 research peer reviewed papers, being editorial board member of "World Journal of Gastroenterology", "Open Biochemistry Journal" and "European Journal of nutrition & Food Safety". He is currently involved in two Research European Networking Programmes: "The European Network for Gastrointestinal Health Research (ENGHIR)" and "Improving health properties of food for sharing our knowledge on the digestive process (INFOGEST).

Recent key references:

Hernández-Hernández O, Marín-Manzano MC, Rubio LA, Moreno FJ, Sanz ML, Clemente A. (2012). Monomer and linkage type of galacto-oligosaccharides affects their resistance to ileal digestion and prebiotic properties in rats. *J Nutr* 142, 1232- 1239.

Clemente A, Marín-Manzano MC, Jiménez E, Arques MC, Domoney C (2012). The antiproliferative effects of TI1B, a major Bowman-Birk isoinhibitor from pea on HT29 colon cancer cells are mediated through protease inhibition. *Br J Nutr* 108, 135-138.

Clemente A, Moreno J, Marín-Manzano MC, Jiménez E, Domoney C (2010). The cytotoxic effect of Bowman-Birk isoinhibitors, IBB1 and IBB2, from soybean on HT29 human

colorectal cancer cells is related to their intrinsic ability to inhibit serine proteases. Mol Nutr Food Res 54, 396-405.

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