

BIOGRAPHY

25/06/2012



Title and name

Professor Robert John Wallace

Nationality

United Kingdom

Panel

Additives and products or substances used in animal feed (FEEDAP)

Education

1972 BSc 1st class hon. Biochemistry, University of Glasgow

1975 PhD Thesis: Maintenance energy and molar growth yields of Escherichia coli. University of Glasgow

Scientific and risk assessment experience

My expertise lies in the main following areas:-

Rumen and intestinal microbiology

Ruminant nutrition

Manipulation of rumen fermentation

Antimicrobial feed additives

Direct-fed microbials

Botanical feed additives

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Main scientific publications

My main publications have been in the field of rumen microbiology.

McIntosh, F. M., Shingfield, K. J., Devillard, E., Russell, W. R., and Wallace, R. J. (2009). Mechanism of conjugated linoleic acid and vaccenic acid formation in human faecal suspensions and pure cultures of intestinal bacteria. Microbiology 155, 285-294.

Wood, T. A., Wallace, R. J., Rowe, A., Price, J., Yanez-Ruiz, D. R., Murray, P., and Newbold, C. J. (2009). Encapsulated fumaric acid as a feed ingredient to decrease ruminal methane emissions. Animal Feed Science and Technology 152, 62-71.

Huws, S. A. Lee, M. R. F. Muetzel, S. M. Scott, M. B. Wallace, R. J. Scollan, N. D. (2010). Forage type and fish oil cause shifts in rumen bacterial diversity. Microbial Ecology 73, 396-407.

Kraatz, M., Wallace, R. J., and Svensson, L. (2010). *Olsenella umbonata* sp. nov., a microaerotolerant anaerobic lactic acid bacterium from the sheep rumen and pig jejunum, and emended descriptions of *Olsenella*, *Olsenella uli* and *Olsenella profusa*. *Int.J.Syst.Evol.Microbiol.* 61, 795-803.

Lourenco, M., Ramos-Morales, E., and Wallace, R. J. (2010). The role of microbes in rumen lipolysis and biohydrogenation and their manipulation. *Animal* 4, 1008-1023.

Maia, M. R., Chaudhary, L. C., Bestwick, C. S., Richardson, A. J., McKain, N., Larson, T. R., Graham, I. A., and Wallace, R. J. (2010). Toxicity of unsaturated fatty acids to the biohydrogenating ruminal bacterium, *Butyrivibrio fibrisolvens*. *BMC Microbiol.* 10, 52.

McKain, N., Shingfield, K. J., and Wallace, R. J. (2010). Metabolism of conjugated linoleic acids and 18 : 1 fatty acids by ruminal bacteria: products and mechanisms. *Microbiology* 156 , 579-588.

Wallace, R. J., Oleszek, W., Franz, C., Hahn, I., Baser, K. H., Mathe, A., and Teichmann, K. (2010). Dietary plant bioactives for poultry health and productivity. *Br.Poult.Sci.* 51, 461-487.

Wood, T. A., Ramos-Morales, E., McKain, N., Shen, X., Atasoglu, C., and Wallace, R. J. (2010). *Chrysanthemum coronarium* as a modulator of fatty acid biohydrogenation in the rumen. *Animal Feed Science and Technology* 161, 28-37.

Scollan, N. D., Greenwood, P. L., Newbold, C. J., Yanez-Ruiz, D. R., Shingfield, K. J., and Hocquette, J. F. (2011). Future research priorities for animal production in a changing world. *Animal Production Science* 51, 1-5.
