

# Thomas A. Tompkins, Ph.D.

## ***Selected Recent Peer-Reviewed Publications on Probiotics (2010 only):***

Broadbent J.R., Cai H., Larsen R.L., Hughes J. E., Welker D. L., de Carvalho V. G., **Tompkins T. A.**, Ardö Y., Vogensen F., De Lorentiis A., Gatti M., Neviani E. and Steele J. L. (2010) Genetic diversity in proteolytic enzymes and amino acid metabolism among *Lactobacillus helveticus* strains. Submitted to Journal of Dairy Sciences November 2010.

Buckley N.D., Champagne C.P., Masotti A.I., Wagar L.E., **Tompkins T.A.**, and Green-Johnson J.M. (2011) Harnessing functional food strategies for the health challenges of space travel – fermented soy for astronaut nutrition. *Acta Astronautica* 68(7-8):731-738.

Champagne C.P., Raymond Y. and **Tompkins T.A.** (2010) The determination of viable counts in probiotic cultures microencapsulated by spray-coating. *Food Microbiol.* 27(8): 1104-1111.

Champagne C.P., **Tompkins T.A.**, Buckley N.D. and Green-Johnson J.M. (2010) Effect of fermentation by pure and mixed cultures of *Streptococcus thermophilus* and *Lactobacillus helveticus* on isoflavone and B-vitamin content of a fermented soy beverage. *Food Microbiol.* 27(7):968-972.

Cazzola M., **Tompkins T.A.**, and Matera M.G. (2010) Immunomodulatory impact of a synbiotic in Th1 and Th2 models of infection. *Therapeutic Advances in Respiratory Disease* 4(5): 259-270.

Alemka A., Clyne M., Shanahan F., **Tompkins T.**, Corcionivoschi N., and Bourke B. (2010) Probiotic colonisation of mucus-adherent HT29MTXE12 cells attenuates *C. jejuni* virulence properties. *Infection and Immunity.* 78: 2812-2822.

Hagen K.E., Tramp C.A., Altermann E., Welker D.L. and **Tompkins, T.A.** (2010) Sequence analysis of plasmid pIR52-1 from *Lactobacillus helveticus* R0052 and investigation of its method of replication. *Plasmid*, 63: 108-117.

**Tompkins T.A.**, Xu X., and Ahmarani, J. (2010) A Comprehensive Review of Post-Market Clinical Studies Performed in Adults with an Asian Probiotic Formulation. *Beneficial Microbes.* 1(1): 93-106.

## **Selected Recent Invited Oral Presentations (2010 only)**

**Tompkins TA** (2010) “Probiotic Impact on Infection, Immunity and the Brain-Gut Axis”. Presented at the XII Congress of Paediatricians of Ukraine “Current Problems of Clinical Paediatrics”, Kiev, Ukraine. Oct. 12-14, 2010.

**Tompkins TA** (2010) “Probiotics? You want me to put this bacteria where?” Presented at the 10<sup>th</sup> Agricultural Biotechnology International Conference (ABIC) in Saskatoon, SK, Sept. 12-15, 2010.

**Tompkins TA** (2010) Evaluating the Host Response to Probiotics: Myths, Realities and New Dimensions. Presented to the Dept. of Molecular and Cellular Biology, University of Guelph, June 24, 2010.

**Tompkins TA** (2010) Host Response to Probiotics – Going Beyond Our Expectations. Presented at the CIFST/AAFC Conference on Safe and Healthy Food: *Harvesting the Science in Winnipeg*, MB, May 30-June 1, 2010.

**Tompkins TA\***, Martin C, and Durand H (2010) Characterisation of Probiotics. Presented at Vitagora Taste-Nutrition-Health Congress, Dijon, France, March 23-24, 2010.

***Selected Recent Scientific Posters (2010-2011 only)***

Audy J, Mathieu O and **Tompkins TA** (2011) A multi-strain probiotic reduces inflammation via the Mitogen Activated Protein Kinase pathway in HT-29 cells challenged with a double-stranded RNA viral mimic. To be presented at the International Congress of Mucosal Immunology, Paris, France, July 5-9, 2011.

Mainville I, Arcand Y and **Tompkins TA** (2011) The Impact of Meal and Time of Administration on the Survival of a Multi-Strain Probiotic During Transit in the IViDiS Model Simulating the Human Upper Gastro-Intestinal Tract. Presented at the Canada-United Kingdom Gut and Health Workshop, St-Hyacinthe, QC, Feb. 24-25, 2011.

Audy J, Mathieu O, de Carvalho V, Ahmarani, J, Belvis J, and **Tompkins TA** (2010) Evaluation of the *In Vitro* Response of Human Intestinal Epithelial Cells to Gram<sup>+</sup> and Gram<sup>-</sup> Bacteria. Presented at Gut Microbiology: new insights into gut microbial ecosystems. 6<sup>th</sup> International Symposium on Probiotics, Montreal, Oct. 28-29, 2010.

Audy J, Mathieu O, de Carvalho V, Ahmarani, J, Belvis J, and **Tompkins TA** (2010) A link between immunomodulation and adhesion for probiotic microbes? 6<sup>th</sup> International Symposium on Probiotics, Montreal, Oct. 28-29, 2010.

Massotti A, Buckley N, Champagne C, **Tompkins T** and Green-Johnson J (2010) Effects of soy and dairy ferments on monocyte viability, cytokine production and cell surface molecule expression: impact in a low-shear modeled microgravity system. To be presented at the 61<sup>st</sup> International Astronautical Congress in Prague, Czech Republic, Sept. 27-Oct. 1, 2010.

Arsenault-Bréard J, Rondeau I, Gilbert K, Girard SA, Godbout R, **Tompkins TA** and Rousseau G (2010) Probiotic inhibit behavioral signs of depression after a myocardial infarction in a rat

model. Presented at NYAS Symposium “Probiotics: From Bench to Market”. New York Academy of Sciences, New York, June 11, 2010.

Audy J, Mathieu O and **Tompkins TA** (2010) Viable, Industrially-Grown *Lactobacillus plantarum* 299v is a Better Immunomodulator than Heat-Killed or Laboratory-Grown Versions. Presented at the International Probiotic Association World Congress, Miami, FL, April 16-17, 2010.

**Tompkins TA**, Mainville I and Farnworth ER (2010) The Impact of Meal and Time of Administration on the Survival of a Multi-Strain Probiotic During Transit in the IViDiS Model Simulating the Human Upper Gastro-Intestinal Tract. Presented at the International Probiotic Association World Congress, Miami, FL, April 16-17, 2010.

Audy J, Mathieu O and **Tompkins TA** (2010) Regulation of Interferon-Induced Protein Genes by a Multi-Strain Commercial Probiotic. Presented at the 2<sup>nd</sup> TNO Beneficial Microbes Conference, The Netherlands, March 15-17, 2010. *Selected for an oral presentation also.*

Champagne CP, **Tompkins TA**, Barrette J, Raymond Y, Wager L, Green-Johnson JM, Buckley, ND (2010) Fermented soy and milk products with high densities of probiotic bacteria with potential application for space travel. Expert meeting on “Evaluating probiotics for the prevention and treatment of enteric and diarrheal diseases in children in developing countries.” Sponsored by the Bill & Melinda Gates Foundation. London UK. January 24-26, 2010.