

Category A: CSET funded Publications
Category B: APC-associated Publications

Category A: CSET Funded Publications	Cores/ Industry partner
Bottacini, F., Medini, D., Pavesi, A., Turroni, F., Foroni, E., Riley, D., Ventura, M. (2010). Comparative genomics of the genus <i>Bifidobacterium</i> . <i>Microbiology</i> , 156(Pt 11), 3243-3254. doi: mic.0.039545-0 [pii]	4
Bravo, J. A., Dinan, T. G., & Cryan, J. F. (2011). Alterations in the central CRF system of two different rat models of comorbid depression and functional gastrointestinal disorders. <i>Int J Neuropsychopharmacol</i> , 14(5), 666-683. doi: S1461145710000994 [pii]	6
Bravo, J. A., Forsythe, P., Chew, M. V., Escaravage, E., Savignac, H. M., Dinan, T. G., Cryan, J. F. (2011). Ingestion of <i>Lactobacillus</i> strain regulates emotional behavior and central GABA receptor expression in a mouse via the vagus nerve. <i>Proc Natl Acad Sci U S A</i> , 108(38), 16050-16055. doi: 1102999108 [pii]	6
Brint, E. K., MacSharry, J., Fanning, A., Shanahan, F., & Quigley, E. M. (2011). Differential expression of toll-like receptors in patients with irritable bowel syndrome. <i>Am J Gastroenterol</i> , 106(2), 329-336. doi: ajg2010438 [pii]	2,6
Browne, C. A., Clarke, G., Dinan, T. G., & Cryan, J. F. (2011). Differential stress-induced alterations in tryptophan hydroxylase activity and serotonin turnover in two inbred mouse strains. <i>Neuropharmacology</i> , 60(4), 683-691. doi: S0028-3908(10)00319-9 [pii]	6, GSK
Claesson, M. J., Wang, Q., O'Sullivan, O., Greene-Diniz, R., Cole, J. R., Ross, R. P., & O'Toole, P. W. (2010). Comparison of two next-generation sequencing technologies for resolving highly complex microbiota composition using tandem variable 16S rRNA gene regions. <i>Nucleic Acids Res</i> , 38(22), e200. doi: gkq873 [pii]	4, Eldermet,1
Clarke, D. J., Chaudhuri, R. R., Martin, H. M., Campbell, B. J., Rhodes, J. M., Constantinidou, C., Henderson, I. R. (2011). Complete Genome Sequence of the Crohn's Disease-Associated Adherent-Invasive <i>Escherichia coli</i> Strain HM605. <i>J Bacteriol</i> , 193(17), 4540. doi: JB.05374-11 [pii]	4
Clayton, E. M., Hill, C., Cotter, P. D., & Ross, R. P. (2011). Real-time PCR assay to differentiate <i>Listeriolysin S</i> -positive and -negative strains of <i>Listeria monocytogenes</i> . <i>Appl Environ Microbiol</i> , 77(1), 163-171. doi: AEM.01673-10 [pii]	1,3
Considine, K. M., Sleator, R. D., Kelly, A. L., Fitzgerald, G. F., & Hill, C. (2011). A role for proline synthesis and transport in <i>Listeria monocytogenes</i> barotolerance. <i>J Appl Microbiol</i> , 110(5), 1187-1194. doi: 10.1111/j.1365-2672.2011.04982.x	3
Considine, K. M., Sleator, R. D., Kelly, A. L., Fitzgerald, G. F., & Hill, C. (2011). Identification and characterization of an essential gene in <i>Listeria monocytogenes</i> using an inducible gene expression system. <i>Bioeng Bugs</i> , 2(3), 150-159. doi: 15476 [pii]	3
Considine, K. M., Sleator, R. D., Kelly, A. L., Fitzgerald, G. F., & Hill, C. (2011). Novel listerial genetic loci conferring enhanced barotolerance in <i>Escherichia coli</i> . <i>J Appl Microbiol</i> , 110(3), 618-630. doi: 10.1111/j.1365-2672.2010.04924.x	3
Cotter, P. D., Ross, R. P., & Hill, C. (2011). Flagging flora: help from bacteriocins? <i>Nature</i> , 477(7363), 162. doi: 10.1038/477162c	1,3
Craig, O. F., Hyland, N. P., & Quigley, E. M. (2011). Functional dyspepsia: eosinophils, macrophages, and the postinfectious state. <i>Gastroenterology</i> , 140(3), 1092-1094; discussion 1094-1095. doi: S0016-5085(11)00064-3 [pii]	6

Davey, M. S., Lin, C. Y., Roberts, G. W., Heuston, S., Brown, A. C., Chess, J. A., Eberl, M. (2011). Human neutrophil clearance of bacterial pathogens triggers anti-microbial gammadelta T cell responses in early infection. <i>PLoS Pathog</i> , 7(5), e1002040. doi: 10.1371/journal.ppat.1002040	3
Davies, J. M., MacSharry, J., & Shanahan, F. (2010). Differential regulation of Toll-like receptor signalling in spleen and Peyer's patch dendritic cells. <i>Immunology</i> , 131(3), 438-448. doi: 10.1111/j.1365-2567.2010.03317.x	2
Desbonnet, L., Garrett, L., Clarke, G., Kiely, B., Cryan, J. F., & Dinan, T. G. (2010). Effects of the probiotic <i>Bifidobacterium infantis</i> in the maternal separation model of depression. <i>Neuroscience</i> , 170(4), 1179-1188. doi: S0306-4522(10)01072-9 [pii]	6, AH
Dobson, A., Crispie, F., Rea, M. C., O'Sullivan, O., Casey, P. G., Lawlor, P. G., Hill, C. (2011). Fate and efficacy of lactacin 3147-producing <i>Lactococcus lactis</i> in the mammalian gastrointestinal tract. <i>FEMS Microbiol Ecol</i> , 76(3), 602-614. doi: 10.1111/j.1574-6941.2011.01069.x	1, 3, pyr
Dobson, A., O'Connor, P. M., Cotter, P. D., Ross, R. P., & Hill, C. (2011). Impact of the broad-spectrum antimicrobial peptide, lactacin 3147, on <i>Streptococcus mutans</i> growing in a biofilm and in human saliva. <i>J Appl Microbiol</i> . doi: 10.1111/j.1365-2672.2011.05153.x	1, 3
Dobson, A., O'Sullivan, O., Cotter, P. D., Ross, P., & Hill, C. (2011). High-throughput sequence-based analysis of the bacterial composition of kefir and an associated kefir grain. <i>FEMS Microbiol Lett</i> , 320(1), 56-62. doi: 10.1111/j.1574-6968.2011.02290.x	1,3
Dowd, G. C., Joyce, S. A., Hill, C., & Gahan, C. G. (2011). Investigation of the mechanisms by which <i>Listeria monocytogenes</i> grows in porcine gallbladder bile. <i>Infect Immun</i> , 79(1), 369-379. doi: IAI.00330-10 [pii]	3
Fallico, V., McAuliffe, O., Fitzgerald, G. F., & Ross, R. P. (2011). Plasmids of Raw Milk Cheese Isolate <i>Lactococcus lactis</i> subsp. <i>lactis</i> Biovar <i>diacetylactis</i> DPC3901 Suggest a Plant-Based Origin for the Strain. <i>Appl Environ Microbiol</i> , 77(18), 6451-6462. doi: AEM.00661-11 [pii]	1,4, 5
Fallico, V., Ross, R. P., Fitzgerald, G. F., & McAuliffe, O. (2011). Genetic response to bacteriophage infection in <i>Lactococcus lactis</i> reveals a four-strand approach involving induction of membrane stress proteins, D-alanylation of the cell wall, maintenance of proton motive force and energy conservation. <i>J Virol</i> . doi: JVI.00275-11 [pii]	1,4
Guinane, C. M., Kent, R. M., Norberg, S., Hill, C., Fitzgerald, G. F., Stanton, C., & Ross, R. P. (2011). Host specific diversity in <i>Lactobacillus johnsonii</i> as evidenced by a major chromosomal inversion and phage resistance mechanisms. <i>PLoS One</i> , 6(4), e18740. doi: 10.1371/journal.pone.0018740	1,3, 4,5
Hall, L. J., Faivre, E., Quinlan, A., Shanahan, F., Nally, K., & Melgar, S. (2011). Induction and activation of adaptive immune populations during acute and chronic phases of a murine model of experimental colitis. <i>Dig Dis Sci</i> , 56(1), 79-89. doi: 10.1007/s10620-010-1240-3	2,GSK
Henry M, Coffey A, O' Mahony J, Sleator RD. Comparative modelling of LysB from the mycobacterial bacteriophage Ardmore. <i>Bioeng Bugs</i> . 2011 Mar 1;2(2):88-95.	3
Julio-Pieper, M., O'Mahony, C. M., Clarke, G., Bravo, J. A., Dinan, T. G., & Cryan, J. F. (2011). Chronic stress-induced alterations in mouse colonic 5-HT and defecation responses are strain dependent. <i>Stress</i> . doi: 10.3109/10253890.2011.607524	6
Marsh, A. J., O'Sullivan, O., Ross, R. P., Cotter, P. D., & Hill, C. (2010). In silico analysis highlights the frequency and diversity of type 1 lantibiotic gene clusters in genome sequenced bacteria. <i>BMC Genomics</i> , 11, 679. doi: 1471-2164-11-679 [pii]	1, 3
McKernan, D. P., Gaszner, G., Quigley, E. M., Cryan, J. F., & Dinan, T. G. (2011). Altered peripheral toll-like receptor responses in the irritable bowel syndrome. <i>Aliment Pharmacol Ther</i> , 33(9), 1045-1052. doi: 10.1111/j.1365-2036.2011.04624.x	6
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Muller, J. A., Ross, R. P., Sybesma, W. F., Fitzgerald, G. F., & Stanton, C. (2011). Modification of technical properties of <i>Lactobacillus johnsonii</i> NCC 533 by supplementing growth medium with unsaturated fatty acids. <i>Appl Environ Microbiol</i> . doi: AEM.05213-11 [pii]	4,5,Nestle

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Murphy, E. E., Cotter, P. D., Hogan, A., O'Sullivan, O., Joyce, A., Fouhy, F., Shanahan, F. (2011). The Gut Microbiota - A Realistic Therapeutic Target in Obesity and Metabolic Dysregulation. <i>Gastroenterology</i> , 140(5), S103-S104.	2,AH
Murphy, E. F., Cotter, P. D., Healy, S., Marques, T. M., O'Sullivan, O., Fouhy, F., Shanahan, F. (2010). Composition and energy harvesting capacity of the gut microbiota: relationship to diet, obesity and time in mouse models. <i>Gut</i> , 59(12), 1635-1642. doi: gut.2010.215665 [pii]	2,AH
Murphy, K., O'Sullivan, O., Rea, M. C., Cotter, P. D., Ross, R. P., & Hill, C. (2011). Genome Mining for Radical SAM Protein Determinants Reveals Multiple Sactibiotic-Like Gene Clusters. <i>PLoS One</i> , 6(7), e20852. doi: 10.1371/journal.pone.0020852	1,3
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O'Connell Motherway, M., Fitzgerald, G. F., & van Sinderen, D. (2011). Metabolism of a plant derived galactose-containing polysaccharide by <i>Bifidobacterium breve</i> UCC2003. <i>Microb Biotechnol</i> , 4(3), 403-416. doi: 10.1111/j.1751-7915.2010.00218.x	4
O'Connell Motherway, M., Zomer, A., Leahy, S., Reunanen, J., Bottacini, F., Claesson, M., O'Brien, F., Flynn, K., Casey, P., Moreno Muñoz, J.A., Kearney, B., Houston, A., O'Mahony, C., Higgins, D., Shanahan, F., Palva, A., De Vos, W.M., Fitzgerald, G.F., Ventura, M., O'Toole, P.W. and D. van Sinderen. (2011) Functional genome analysis of <i>Bifidobacterium breve</i> UCC2003 reveals Tad pili as an essential and conserved host-colonization factor. <i>Proc Natl Acad Sci U S A</i> , 108(27), 11217-11222. doi: 1105380108 [pii]	4,2
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O'Mahony, C. M., Sweeney, F. F., Daly, E., Dinan, T. G., & Cryan, J. F. (2010). Restraint stress-induced brain activation patterns in two strains of mice differing in their anxiety behaviour. <i>Behav Brain Res</i> , 213(2), 148-154. doi: S0166-4328(10)00319-0 [pii]	6
O'Malley, D., Dinan, T. G., & Cryan, J. F. (2011). Altered expression and secretion of colonic interleukin-6 in a stress-sensitive animal model of brain-gut axis dysfunction. <i>J Neuroimmunol</i> , 235(1-2), 48-55. doi: S0165-5728(11)00100-7 [pii]	6
O'Malley, D., Dinan, T. G., & Cryan, J. F. (2011). Neonatal maternal separation in the rat impacts on the stress responsivity of central corticotropin-releasing factor receptors in adulthood. <i>Psychopharmacology (Berl)</i> , 214(1), 221-229. doi: 10.1007/s00213-010-1885-9	6
O'Malley, D., Liston, M., Hyland, N. P., Dinan, T. G., & Cryan, J. F. (2011). Colonic soluble mediators from the maternal separation model of irritable bowel syndrome activate submucosal neurons via an interleukin-6-dependent mechanism. <i>Am J Physiol Gastrointest Liver Physiol</i> , 300(2), G241-252. doi: ajpgi.00385.2010 [pii]	6
O'Neill, S. B., O'Connor, O. J., McWilliams, S. R., Shanahan, F., & Maher, M. M. (2011). Minimization of radiation exposure due to computed tomography in inflammatory bowel disease. <i>Clin Res Hepatol Gastroenterol</i> , 35(2), 105-110. doi: S2210-7401(10)00446-8 [pii]	2
O'Shea, E. F., Cotter, P. D., Stanton, C., Ross, R. P., & Hill, C. (2011). Production of bioactive substances by intestinal bacteria as a basis for explaining probiotic mechanisms: Bacteriocins and conjugated linoleic acid. <i>Int J Food Microbiol</i> . doi: S0168-1605(11)00322-9 [pii]	1,5
O'Sullivan, E., Grenham, S., Barrett, E., Fitzgerald, P., Stanton, C., Ross, R. P., Dinan, T. G. (2011). BDNF Expression in the Hippocampus of Maternally Separated Rats: Does <i>Bifidobacterium Breve</i> 6330 Alter BDNF Levels? <i>Gastroenterology</i> , 140(5), S850-S850.	5,6
Piper, C., Hill, C., Cotter, P. D., & Ross, R. P. (2011). Bioengineering of a Nisin A-producing <i>Lactococcus lactis</i> to create isogenic strains producing the natural variants Nisin F, Q and Z. <i>Microb Biotechnol</i> , 4(3), 375-382. doi: 10.1111/j.1751-7915.2010.00207.x	1,3
Pokusaeva, K., Fitzgerald, G. F., & van Sinderen, D. (2011). Carbohydrate metabolism in <i>Bifidobacteria</i> . <i>Genes Nutr</i> , 6(3), 285-306. doi: 10.1007/s12263-010-0206-6	4

Raftis, E. J., Salvetti, E., Torriani, S., Felis, G. E., & O'Toole, P. W. (2011). Genomic diversity of <i>Lactobacillus salivarius</i> . <i>Appl Environ Microbiol</i> , 77(3), 954-965. doi: AEM.01687-10 [pii]	4
Rea, M. C., Dobson, A., O'Sullivan, O., Crispie, F., Fouhy, F., Cotter, P. D., Ross, R. P. (2011). Effect of broad- and narrow-spectrum antimicrobials on <i>Clostridium difficile</i> and microbial diversity in a model of the distal colon. <i>Proc Natl Acad Sci U S A</i> , 108 Suppl 1, 4639-4644. doi: 1001224107 [pii]	1
Rosberg-Cody, E., Liavonchanka, A., Gobel, C., Ross, R. P., O'Sullivan, O., Fitzgerald, G. F., Stanton, C. (2011). Myosin-cross-reactive antigen (MCRA) protein from <i>Bifidobacterium breve</i> is a FAD-dependent fatty acid hydratase which has a function in stress protection. <i>BMC Biochem</i> , 12, 9. doi: 1471-2091-12-9 [pii]	1,4,5
Rosberg-Cody, E., Stanton, C., O'Mahony, L., Wall, R., Shanahan, F., Quigley, E. M., Ross, R. P. (2011). Recombinant lactobacilli expressing linoleic acid isomerase can modulate the fatty acid composition of host adipose tissue in mice. <i>Microbiology</i> , 157(Pt 2), 609-615. doi: mic.0.043406-0 [pii]	2,4,5,6, AH
Russell, D. A., Ross, R. P., Fitzgerald, G. F., & Stanton, C. (2011). Metabolic activities and probiotic potential of bifidobacteria. <i>Int J Food Microbiol</i> , 149(1), 88-105. doi: S0168-1605(11)00338-2 [pii]	4,5
Savignac, H. M., Dinan, T. G., & Cryan, J. F. (2011). Resistance to early-life stress in mice: effects of genetic background and stress duration. <i>Front Behav Neurosci</i> , 5, 13. doi: 10.3389/fnbeh.2011.00013	6
Savignac, H. M., Finger, B. C., Pizzo, R. C., O'Leary, O. F., Dinan, T. G., & Cryan, J. F. (2011). Increased sensitivity to the effects of chronic social defeat stress in an innately anxious mouse strain. <i>Neuroscience</i> ;192:524-36, 2011 doi: S0306-4522(11)00494-5 [pii]	6
Savignac, H. M., Hyland, N. P., Dinan, T. G., & Cryan, J. F. (2011). The effects of repeated social interaction stress on behavioural and physiological parameters in a stress-sensitive mouse strain. <i>Behav Brain Res</i> , 216(2), 576-584. doi: S0166-4328(10)00621-2 [pii]	6
Shanab, A. A., Scully, P., Crosbie, O., Buckley, M., O'Mahony, L., Shanahan, F., Quigley, E. M. (2011). Small intestinal bacterial overgrowth in nonalcoholic steatohepatitis: association with toll-like receptor 4 expression and plasma levels of interleukin 8. <i>Dig Dis Sci</i> , 56(5), 1524-1534. doi: 10.1007/s10620-010-1447-3	2,6
Sit, C. S., McKay, R. T., Hill, C., Ross, R. P., & Vederas, J. C. (2011). The 3D structure of thuricin CD, a two-component bacteriocin with cysteine sulfur to alpha-carbon cross-links. <i>J Am Chem Soc</i> , 133(20), 7680-7683. doi: 10.1021/ja201802f	1,3
Stanton, C., Rosberg-Cody, E., O'Mahony, L., Wall, R., Shanahan, F., Quigley, E. M., Ross, R. P. (2011). Recombinant lactobacilli expressing linoleic acid isomerase can modulate the fatty acid composition of host adipose tissue in mice. <i>Microbiology-Sgm</i> , 157, 609-615.	1,2,5,6
Turroni, F., Bottacini, F., Foroni, E., Mulder, I., Kim, J. H., Zomer, A., Ventura, M. (2010). Genome analysis of <i>Bifidobacterium bifidum</i> PRL2010 reveals metabolic pathways for host-derived glycan foraging. <i>Proc Natl Acad Sci U S A</i> , 107(45), 19514-19519. doi: 1011100107 [pii]	4
Turroni, F., Milani, C., van Sinderen, D., & Ventura, M. (2011). Genetic strategies for mucin metabolism in <i>Bifidobacterium bifidum</i> PRL2010: An example of possible human-microbe co-evolution. <i>Gut Microbes</i> , 2(3). doi: 16105 [pii]	4

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Foroni, E., Serafini, F., Amidani, D., Turroni, F., He, F., Bottacini, F., O'Connell Motherway, M., Viappiani, A., Zhang, Z., Rivetti, C., Van Sinderen, D. and M. Ventura. (2011) Genetic analysis and morphological identification of pilus-like structures in members of the genus <i>Bifidobacterium</i> . <i>Microb. Cell Fact.</i> , <i>accepted for publication</i> .	4
Kearney N, Stack HM, Tobin JT, Chaurin V, Fenelon MA, Fitzgerald GF, Ross RP, Stanton C (2011). Probiotic <i>Lactobacillus paracasei</i> NFBC 338 producing recombinant beta-glucan positively influences the functional properties of yoghurt (in press IDJ)	4,5
Murphy C., K. Nally, F. Shanahan and S. Melgar, "Shining a light on intestinal traffic" <i>Clinical and Experimental Immunology</i> (In Press).	2,GSK
O'Mahony SM, Coelho AM, Lee K, Winchester WJ, Dinan TG, Cryan JF The effects of gabapentin in two animal models of co-morbid anxiety and visceral hypersensitivity. <i>Eur J. Pharmacol</i> , <i>In Press 2011</i>	6
Patterson E, Wall R, Fitzgerald GF, Ross RP, Stanton C. Health implications of high dietary omega-6 polyunsaturated fatty acids. (Submitted to <i>Journal of Nutrition and Metabolism</i>).	4,5

Pokusaeva, K., O'Connell-Motherway, M., Zomer, A., MacSharry, J., Fitzgerald, G.F. and D. van Sinderen. (2011) Cellodextrin utilization by <i>Bifidobacterium breve</i> UCC2003. Appl. Environ. Microbiol., <i>accepted for publication</i> .	2,4
Tramullas, M, Dinan TG, Cryan JF. Chronic Psychosocial Stress Induces Visceral Hyperalgesia in Mice <i>Stress</i> In Press	6
Turrone, F., Foroni, E., Serafini, F., Viappani, A., Montanini, B., Bottacini, F., Ferrarini, A., Bacchine, P., Rota, C., Delleone, M., Ottonello, S., Van Sinderen, D. and M. Ventura. (2011) The ability of <i>Bifidobacterium breve</i> to grow on different milk types: exploring milk metabolism through genome analysis. Appl. Environ. Microbiol., <i>accepted for publication</i> .	4
Wall R, Marques TM, O'Sullivan O, Ross RP, Shanahan F, Quigley EM, Dinan TG, Kiely B, Fitzgerald GF, Cotter PD, Fouhy F, Stanton C. Contrasting effects of <i>Bifidobacterium breve</i> DPC 6330 and <i>Bifidobacterium breve</i> NCIMB 702258 on the composition of brain fatty acids and gut microbiota. (Submitted to Am J Clin Nutr).	2,5,6,AH

Category B: APC Associated Publications (not funded by CSET grant)	Cores/ Industry partner
Bullman S, Corcoran D, O'Leary J, Lucey B, Byrne D, Sleator RD. <i>Campylobacter ureolyticus</i> : an emerging gastrointestinal pathogen? <i>FEMS Immunol Med Microbiol</i> . 2011 Mar;61(2):228-30. doi: 10.1111/j.1574-695X.2010.00760.x.	4
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Claesson, M. J., S. Cusack, O. O'Sullivan, R. Greene-Diniz, H. de Weerd, E. Flannery, J. R. Marchesi, D. Falush, T. Dinan, G. F. Fitzgerald, C. Stanton, D. van Sinderen, M. O'Connor, N. Harnedy, K. O'Connor, C. Henry, D. O'Mahony, A. P. Fitzgerald, F. Shanahan, C. Twomey, C. Hill, R. P. Ross, and P. W. O'Toole. 2011. Composition, variability and temporal stability of the intestinal microbiota of the elderly. <i>Proc. Nat. Acad. Sci. USA</i> . 108 Suppl. 1:4586-91. doi: 1000097107 [pii]	1,2,4,5,6, Eldermet
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Collins, B., Cotter, P. D., Hill, C., & Ross, R. P. (2011). The impact of nisin on sensitive and resistant mutants of <i>Listeria monocytogenes</i> in cottage cheese. <i>J Appl Microbiol</i> , 110(6), 1509-1514. doi: 10.1111/j.1365-2672.2011.05005.x	1
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