

CURRICULUM VITAE OF Dr. RAJ KUMAR DUARY

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Academic Qualifications

Degree	Subject	University/ Institution	Year
B.Tech.	Dairy Technology	WBUAFSc	2004
M.Sc.	Dairy Microbiology	NDRI, Karnal	2006
Ph.D	Dairy Microbiology	NDRI, Karnal	2010

Professional experience

Working as Assistant Professor in Dept of Food Engineering and Technology, Tezpur University from 28-07-2010 to till date.

Awards and Fellowships

- Awarded Best Ph.D Thesis during 2009-2010 in processing group from NDRI, Karnal, Haryana.
- Awarded “First Best Paper” published in Indian Dairyman by IDA (39th Dairy Industry Conference held in Salt Lake, Kolkata in 4-6 Feb, 2011)
- First poster award in National Seminar on: Role of bioactive compounds in foods on human health; held on 14th to 16th Nov, 2011, Tezpur University.
- Receiving Institutional fellowship for Ph.D Programme at NDRI, Karnal, 2006.
- Ranked 1st in All India Entrance Exam for Master’s programme (ICAR, India).

- Received JRF (Junior Research Fellowship)-ICAR during M.Sc. programme, India (2004-2006).
- Qualified ICAR-NET (National Eligibility Test) Certificate in 2008 and 2010.
- Recipient of Merit Scholarship during B.Tech programme.

Current areas of research

- Isolation, screening, and identification of food as well as probiotic micro-organisms from different niches.
- *In vitro* and *in vivo* probiotic assays.
- Relative and absolute expression study of various genes that are regulated by probiotic interventions at different metabolic disease conditions using Real-Time PCR (RT-qPCR)
- Human Cell culturing (HT-29, Caco-2, PANC-1, THP-1)

Publications Related to Probiotics

Duary, R. K., Bhausheb. M. A., Batish, V. K. and Grover, S. **2011.** Anti-inflammatory and immunomodulatory efficacy of indigenous probiotic *Lactobacillus plantarum* Lp91 in colitis mouse model. Mol. Biol. Rep., DOI 10.1007/s11033-011-1269-1.

Duary, R. K., Batish, V. K. and Grover, S. **2011.** Relative gene expression of bile salt hydrolase and surface proteins in two putative indigenous *Lactobacillus plantarum* strains under *in vitro* gut conditions. Mol. Biol. Rep., DOI: 10.1007/s11033-011-1006-9.

Duary, R. K., Rajput, Y.S., Batish, V. K. and Grover, S. **2011.** Assessing the adhesion of putative indigenous probiotic lactobacilli to human colonic epithelial cells. Indian Journal of Medical Research. (Accepted)

Achuthan, A. A., **Duary, R. K.,** Anupama M., Panwar, H., Kumar, H., Batish, V. K. and Grover, S. Antioxidative potential of indigenous lactobacilli isolated from the gut of Indian people. Mol. Biol. Rep., (Under revision)

Duary, R. K., Batish, V. K. and Grover, S. **2010.** Expression of *atpD* gene in putative indigenous probiotic *L. plantarum* strains under *in vitro* acidic conditions by RT-qPCR. Research in Microbiology, 161(5): 399-405.doi:10.1016/j.resmic.2010.03.012.

Kaushik, J. K., Kumar, A., **Duary, R. K.,** Mohanty, A. K., Grover, S. and Batish, V. K. **2009.** Functional and probiotic attributes of an indigenous isolate of *Lactobacillus plantarum*. PLoS ONE 4(12): e8099. doi:10.1371/journal.pone.0008099

Duary, R. K., Grover, S., Mohanty, A. K., Kaushik, J. K. and Batish, V. K. **2009.** Randomly amplified polymorphic DNA profiles of *Lactobacillus* isolates from human faecal samples. International Journal of Probiotics and Prebiotics, 4(1): 55-64.

Duary, R. K., Grover, S., and Batish, V. K. **2009**. Probiotics- a magic bullet. Indian Dairyman, 61(8): 22-32

Rashmi, H. M, Rokana, N., **Duary, R. K.**, Panwar, H., Batish, V. K. and Grover, S. **2011**. Management of Metabolic Syndrome through Probiotic and Prebiotic interventions. Indian Journal of Endocrinology and Metabolism. (Accepted)

Grover, S., **Duary, R. K.** and Batish, V. K. **2011**. Genomics based biomarkers for probiotic functionality. In: Functional Dairy Foods: concepts and application. Eds: Tomar et al. pp- 191-196.

Grover, S., **Duary, R. K.** and Batish, V. K. **2008**. Genomics based biomarkers for probiotic functionality. Advances in Microbiology, Chemistry and Technology of dairy functional foods and nutraceuticals, 137-139.