



## Council on Dairy Cattle Breeding Response to Data Request

**Applicant:** *Younes Miar*

**Organization:** *Department of Animal Science and Aquaculture, Dalhousie University, Truro, Canada*

**Form received:** *October 23, 2017*

**Data requested:** *Both*

**Purpose of proposal:** *Academic*

**Title of proposal:** *Genome-wide association studies for methane emission in Iranian Holstein cattle*

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CDCB Response to the proposal: *The proposal was not accepted. Under the United States Department of Treasury Office of Foreign Assets Control ("OFAC") regulations, CDCB cannot exchange data or services with Iran.*

CDCB Assessment of the proposal: *The objective of this study is to identify genomic regions associated with community composition of rumen methanogenic archaea in Iranian Holstein cattle. The investigators have genomic DNA samples from 200 Iranian Holsteins, with 150 samples genotyped at 30K density (GGP-LD v4) and the remaining samples being genotyped with the Illumina 50K chip. The investigators will identify the community composition of rumen methanogenic archaea identified with qPCR of 16S rRNA genes and alignment of MiSeq reads to GREENGENES database. Genome wide association studies will be performed to identify QTL and genes underlying methane emission in Iranian Holsteins.*

CDCB Request for further information: *N/A*

CDCB details to deliver the data requested: *N/A*