**Digital Commons – Data Fields**

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**Title of Your Dataset or Journal article:**

Mapping transcriptional changes associated with the maternal-to-embryonic transition in bovine embryos to small non-coding RNA profiles in both in vitro-fertilized and scNT cattle embryos. Supplementary File 4 – Cytoscape networks for differentially expressed   
miRNAs and their predicted mRNA targets

**Description (short description of your dataset; indicate it is supporting an article):**

PDF document depicting Cytoscape networks for differentially expressed miRNAs and their predicted targets. This data set is supporting material for a dissertation and a forthcoming journal article.

**Comments**:(*anything you need people to know right up front – special software they will need to use your data? Order of download or use? This information appears on the front of the Digital Commons page, with the title, the Journal title, authors, etc. so it’s a good place to show users important information*)

Networks depicted within this PDF document were created using data for differentially miRNAs and their predicted mRNA targets (TargetScan total context ++ score <−0.35) using Cytoscape with a force-directed layout. Only miRNAs within families annotated by TargetScan as conserved or broadly conserved were included in the network analysis. MiRNAs are represented by squares and target mRNAs as circles and both are shaded according to their log2 fold change for the comparison indicated. Edges between miR and mRNA nodes indicate that the connected mRNA is a predicted target of the miRNA in *Bos taurus*.

Abbreviations are: for embryo type, *in vitro* fertilized(IVF) or somatic cell nuclear transfer (NT); and for developmental stage, fibroblasts (Fb), oocytes (Oo), 2-cell stage embryo (2c), 8-cell stage embryo (8c), morula stage embryo (Mo), blastocyst stage embryo (Bl), blastocyst derived cells (BSCs).

**Discipline:** Developmental Biology

*We usually select based on your department and area*

*You can see a list of disciplines here:* [*http://network.bepress.com/*](http://network.bepress.com/)

*At the bottom of the page, you can click and drill down through the subsequent pages to see additional breakdown*.

**Keywords:**

Transcriptome, mRNA, maternal-to-embryonic transition, embryonic genome activation, somatic cell nuclear transfer, microRNA

**Journal:** TBD

*If applicable, name of journal in which your article is appearing that your dataset is supporting*

**Volume, Issue, Date (year is fine that is all you have):** TBD

*For journal issue*

**Embargo:** 12/31/2020

*Date that you want the data to be made public. If immediate, enter today’s date*