Leishmania donovani infection induce differential miRNA expression in CD4+ T cells.

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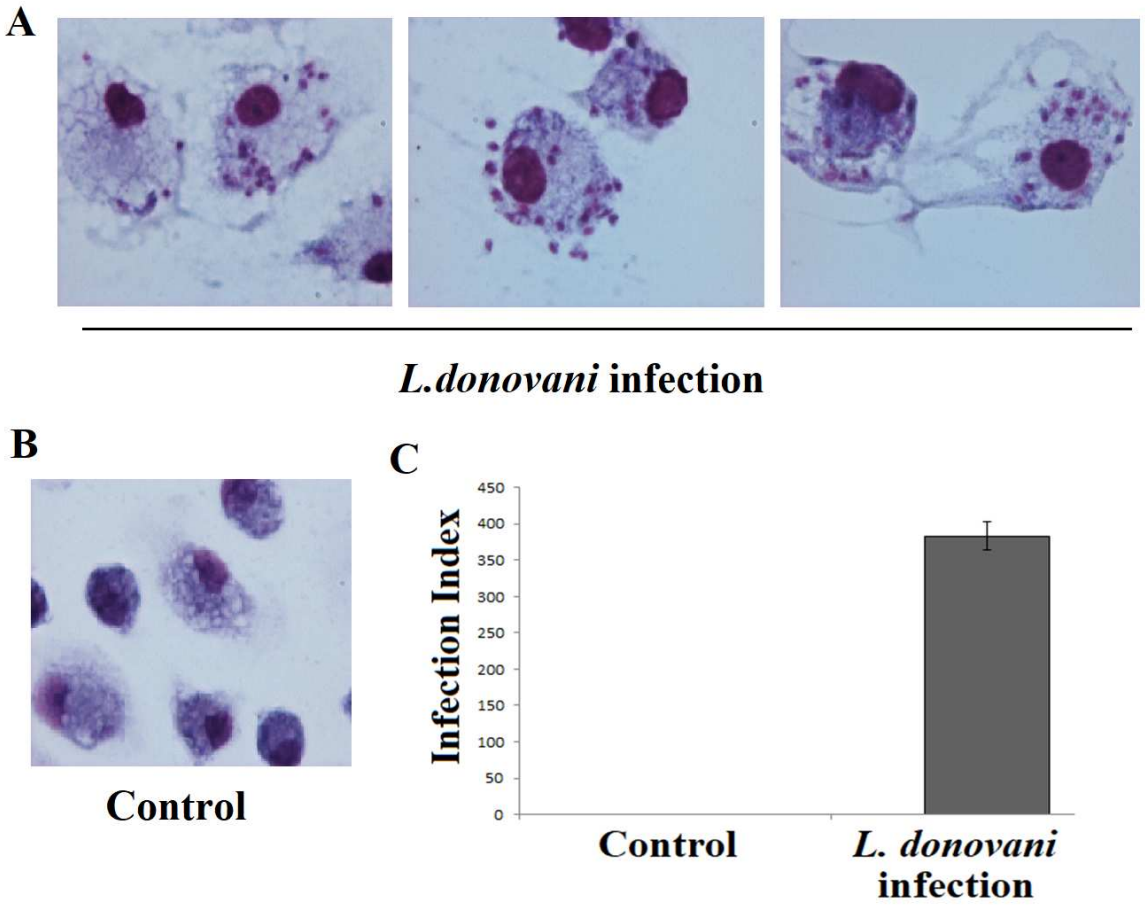
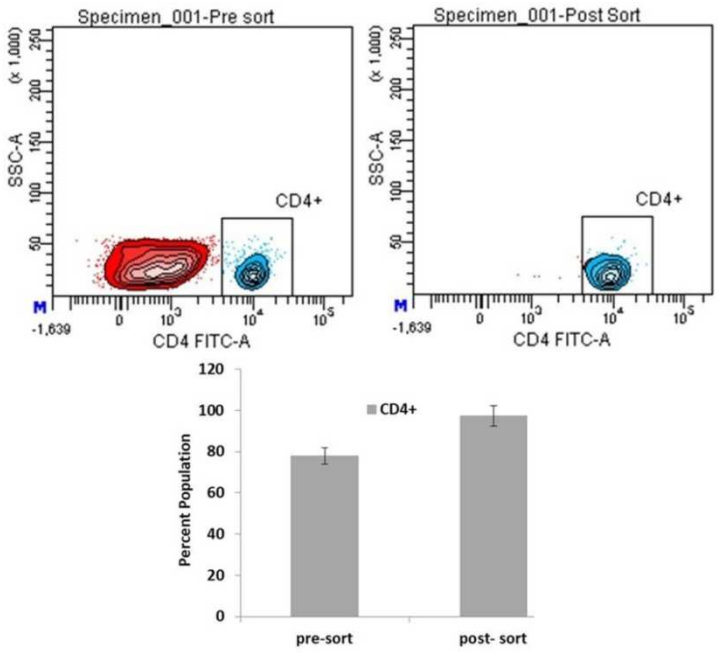
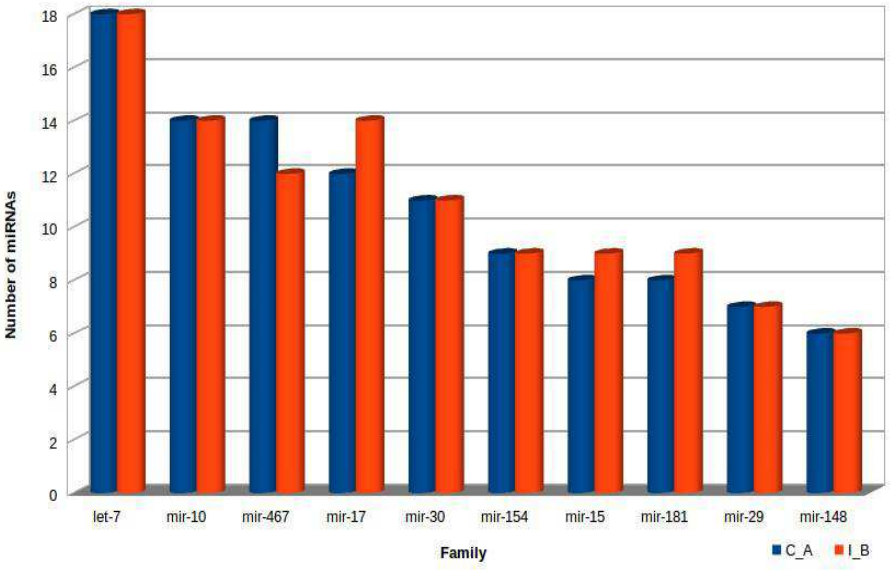


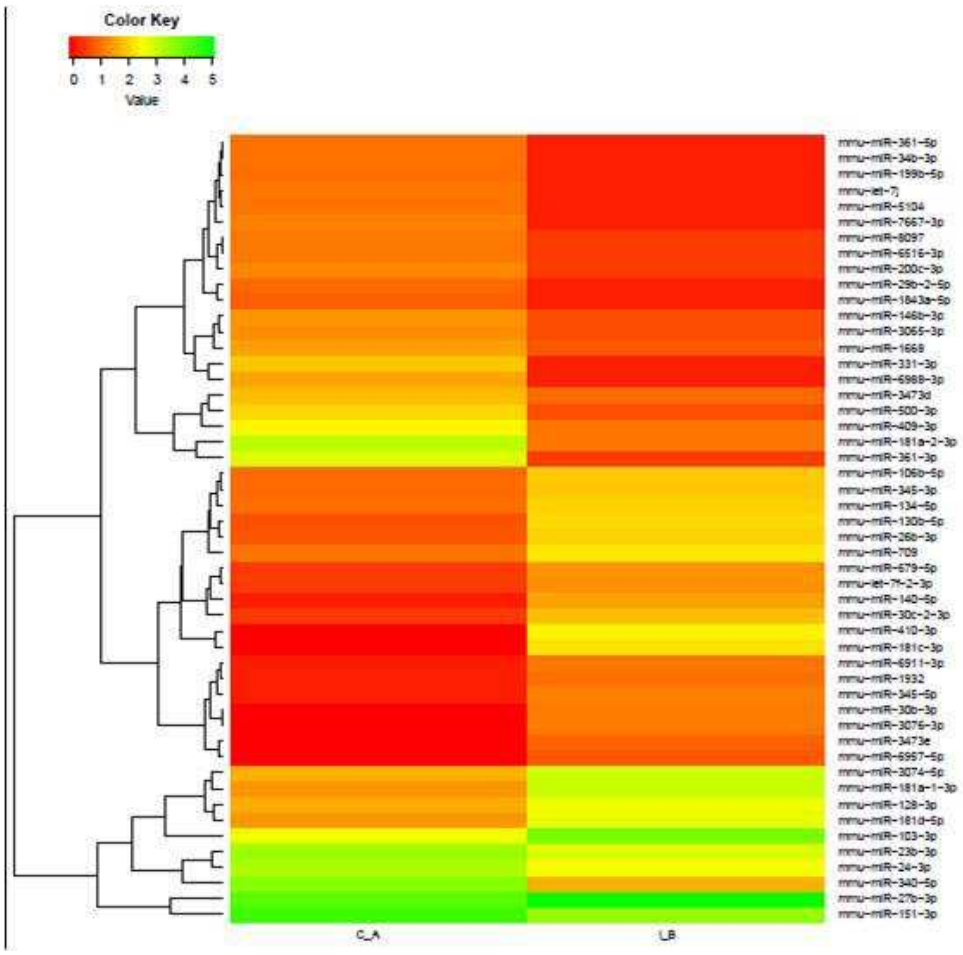
Supplementary Figure 1. Peritoneal macrophages of BALB/c mice were infected with *L. donovani*, uninfected macrophage were taken as control. After 6h of interaction, uninfected parasites were washed and incubated for 24hrs in 5% CO_2 atmosphere. After 24hrs, cells were stained with May-Grunwald, followed by Geimsa staining. (A) The infected macrophages from three different microscopic fields were taken. (B) Control macrophages without infection, (C) Infected cells were counted and results are expressed as infection index. Infection index was measured as mean of infected cells X the mean number of parasites per infected cells. Bar represent mean ± SE of the three independent experiments.



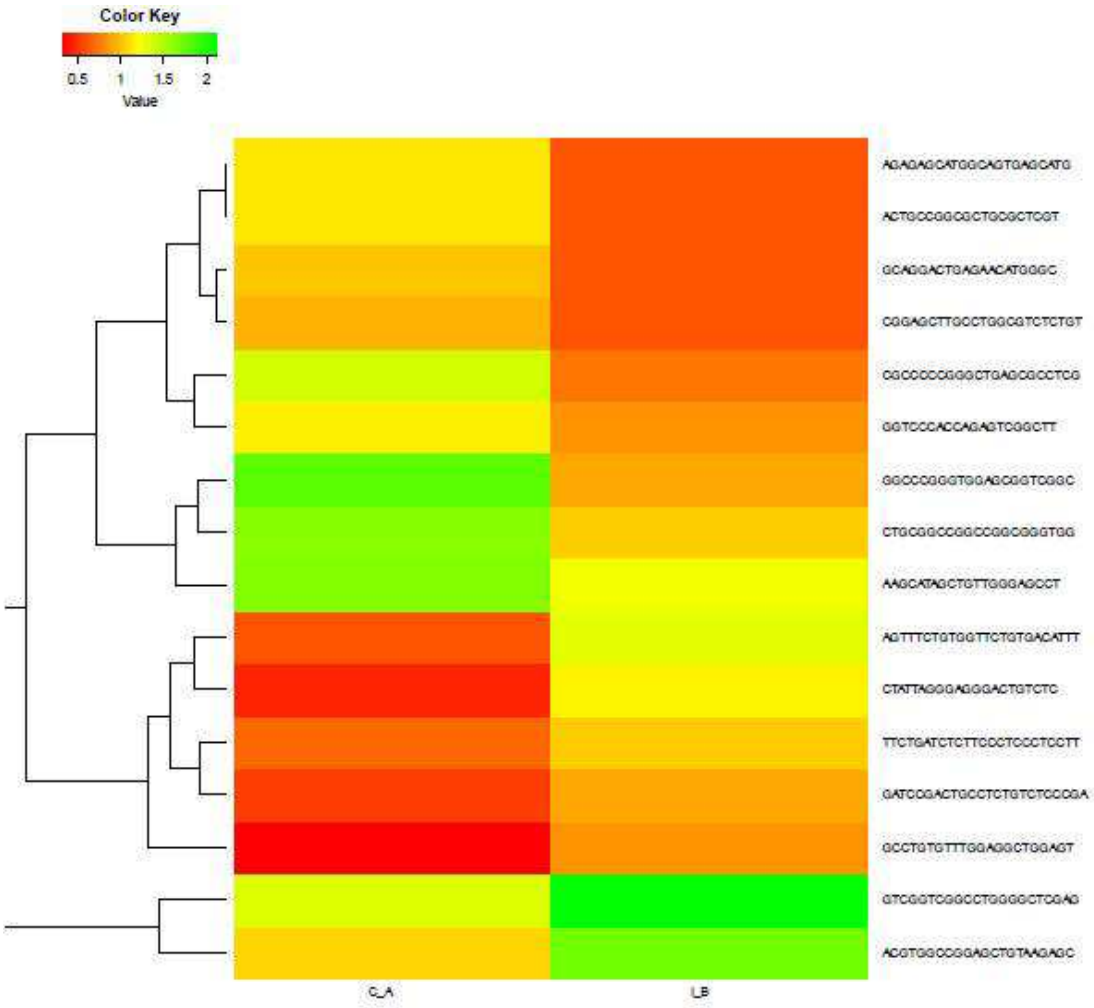
Supplementary Figure 2. (A) Flow cytometry analysis for measurement of CD4+ T cell before and after sorting (B). Graphical representation of CD4+ T cell population.



Supplementary Figure 3. Family analysis of conserved miRNA



Supplementary Figure 4: Heatmap of known miRNA



Supplementary Figure 5. Heatmap of novel miRNA

Supplementary Table-1: List of primers used in this study

S. no	**List of Up regulated miRNA**	**Stem Loop Primer Sequence**	**Forward Primer Seq**
1	let-7e-3p	5'GTTGGCTCTGGTGCAGGGTCCGAGGTATTCGCACCAGAGCCAAC GGAAAG 3'	5'ACAAGUCUAUACGGCCUC 3'
2	miR-10a-3p	5'GTTGGCTCTGGTGCAGGGTCCGAGGTATTCGCACCAGAGCCAAC TATTCC 3'	5'CCCGGACAAAUUCGUAUC 3'
3	miR-134-5p	5'GTTGGCTCTGGTGCAGGGTCCGAGGTATTCGCACCAGAGCCAAC CCCCUC 3'	5'CGAUGAUGUGACUGGUUG 3'
4	miR-193a-3p	5'GTTGGCTCTGGTGCAGGGTCCGAGGTATTCGCACCAGAGCCAAC ACUGGG 3'	5'CACUCUAACUGGCCUACA 3'
5	miR-212-3p	5'GTTGGCTCTGGTGCAGGGTCCGAGGTATTCGCACCAGAGCCAAC UGGCCG 3'	5'CCGAUGUAACAGUCUCCA 3'
6	miR-296-5p	5'GTTGGCTCTGGTGCAGGGTCCGAGGTATTCGCACCAGAGCCAAC ACAGGA 3'	5'UAUUUUAGGGCCCCCCCU 3'
7	miR-33-5p	5'GTTGGCTCTGGTGCAGGGTCCGAGGTATTCGCACCAGAGCCAAC UGCAAU 3'	5'CGAAUCGUGCAUUGUAGU 3'
8	miR-431-5p	5'GTTGGCTCTGGTGCAGGGTCCGAGGTATTCGCACCAGAGCCAAC UGCAUG 3'	5'AACUUAUGUCUUGCAGGC 3'
9	miR-5128	5'- GTCGTATCCAGTGCAGGGTCCGAGGTATTCGCACTGGATACGACAGCCAT 3'	5' GACCCGCAAAAGGGGCAG 3'
10	miR-5620-3p	5'- GTCGTATCCAGTGCAGGGTCCGAGGTATTCGCACTGGATACGACCACAGT 3'	5' GGAGCTACGAGGCAGGGG 3'
11	miR-574-5p	5'- GTCGTATCCAGTGCAGGGTCCGAGGTATTCGCACTGGATACGACACACAC 3'	5' GCCGCGTGAGTGTGTGTG 3'
12	miR-690	5'- GTCGTATCCAGTGCAGGGTCCGAGGTATTCGCACTGGATACGACTTTGGT 3'	5' CCGGCGAAAGGCTAGGCT 3'
13	miR-6994-5p	5'- GTCGTATCCAGTGCAGGGTCCGAGGTATTCGCACTGGATACGACTCACCG 3'	5' GCGGCAACAAAGGTGGGT 3'
14	miR-7093-3p	5'- GTCGTATCCAGTGCAGGGTCCGAGGTATTCGCACTGGATACGACCTGCAG 3'	5' GCGCGCTTTCCATCTGTC 3'
15	miR-7235-5p	5'- GTCGTATCCAGTGCAGGGTCCGAGGTATTCGCACTGGATACGACGCCCAG 3'	5' CCAAACGGAGGGAGGGGT 3'
16	miR-7673-5p	5'- GTCGTATCCAGTGCAGGGTCCGAGGTATTCGCACTGGATACGACCATTCC 3'	5' GGCCGGTTTGACTGAGAG 3'
17	miR-7a-1-3p	5'- GTCGTATCCAGTGCAGGGTCCGAGGTATTCGCACTGGATACGACTTTGGC 3'	5' CGCGCGCAACAAAACACA 3'
18	miR-8096	5'- GTCGTATCCAGTGCAGGGTCCGAGGTATTCGCACTGGATACGACTCTCTT 3'	5' AGACGTGGGCACGGAAGC 3'
19	miR-8094	5'- GTCGTATCCAGTGCAGGGTCCGAGGTATTCGCACTGGATACGACTCTTCT 3'	5' CGCCGCAACUGAAGGACA 3'
	List of down regulated miRNA	**Stem Loop Primer Sequence**	**Forward Primer Seq**
1	let 7j	5'- GTCGTATCCAGTGCAGGGTCCGAGGTATTCGCACTGGATACGACATAACA 3'	5'GGCCCATGAGGTATTAGT 3'

2	miR-145a-5p	5’GTTGGCTCTGGTGCAGGGTCCGAGGTATTCGCACCAGAGCCAACAGGGAU 3’	5’CAAGCUGUCCAGUUUUCC 3’
3	miR-147-3p	5’GTTGGCTCTGGTGCAGGGTCCGAGGTATTCGCACCAGAGCCAACUAGCAG 3’	5’AUGCUAGUGUGCGGAAAU 3’
4	miR-181a-2-3p	5′- GTC GTA TCC AGT GCA GGG TCC GAG GTA TTC GCA CTG GAT ACG AC GGTACA 3’	5’AATTTAAACCACCGACCGT 3’
5	miR-18a-3p	5’GTTGGCTCTGGTGCAGGGTCCGAGGTATTCGCACCAGAGCCAACCAGAAG 3’	5’CAAUCGACUGCCCUAAGU 3’
6	miR-23b-3p	5’GTTGGCTCTGGTGCAGGGTCCGAGGTATTCGCACCAGAGCCAACGGUAAU 3’	5’CAAUGCAUCACAUUGCCA 3’
7	miR-322-5p	5’GTTGGCTCTGGTGCAGGGTCCGAGGTATTCGCACCAGAGCCAACUCCAAA 3’	5’CGUAGUCAGCAGCAAUUC 3’
8	miR-340-5p	5′- GTCGTATCCAGTGCAGGGTCCGAGGTATTCGCACTGGAT ACG AC AATCAG 3’	5’GCCCGCTTATAAAGCAAT 3’
9	miR-3473f	5′- GTCGTATCCAGTGCAGGGTCCGAGGTATTCGCACTGGATACGACCATCTC 3’	5’GCCCAACAAATAGGACTG 3’
10	miR-365-3p	5’GTTGGCTCTGGTGCAGGGTCCGAGGTATTCGCACCAGAGCCAACAUAAGG 3’	5’CGGAUCUAAUGCCCCUAA 3’
11	miR-486a-3p	5′- GTCGTATCCAGTGCAGGGTCCGAGGTATTCGCACTGGATACGACATCCTG 3’	5’ATATATCGGGGCAGCTCA 3’
12	miR-503-3p	5′- GTCGTATCCAGTGCAGGGTCCGAGGTATTCGCACTGGATACGACCCAGGC 3’	5’GGGCGAGAGTATTGTTTC 3’
13	miR-615-3p	5’GTTGGCTCTGGTGCAGGGTCCGAGGTATTCGCACCAGAGCCAACAAGAGG 3’	5’UUAUAAUCCGAGCCUGGG 3’
14	miR-7017-5p	5′- GTCGTATCCAGTGCAGGGTCCGAGGTATTCGCACTGGATACGACACAGCC 3’	5’GCATACAGAGGGTTGTGA 3’
15	miR-7655	5′- GTCGTATCCAGTGCAGGGTCCGAGGTATTCGCACTGGATACGACTCTTTA 3’	5’ TATAAT CGGCCCACGGAG 3’
16	miR-8115	5’GTTGGCTCTGGTGCAGGGTCCGAGGTATTCGCACCAGAGCCAACAGAGCC 3’	5’GUAAGUCCGCAAUAGCAA 3’
17	miR-93-3p	5′- GTCGTATCCAGTGCAGGGTCCGAGGTATTCGCACTGGATACGACCGGGAA 3’	5’CATGGACTGCTGAGCTA 3’
	Endogenous Control		
1.	Sno-142	5’GTTGGCTCTGGTGCAGGGTCCGAGGTATTCGCACCAGAGCCAACTTCCTC 3’	5’GCGGCGGGTCAGTGCCACGTGT 3’
1.		**Universal Reverse Primer Seq.** 5’ GTGCAGGGTCCGAGG 3’	