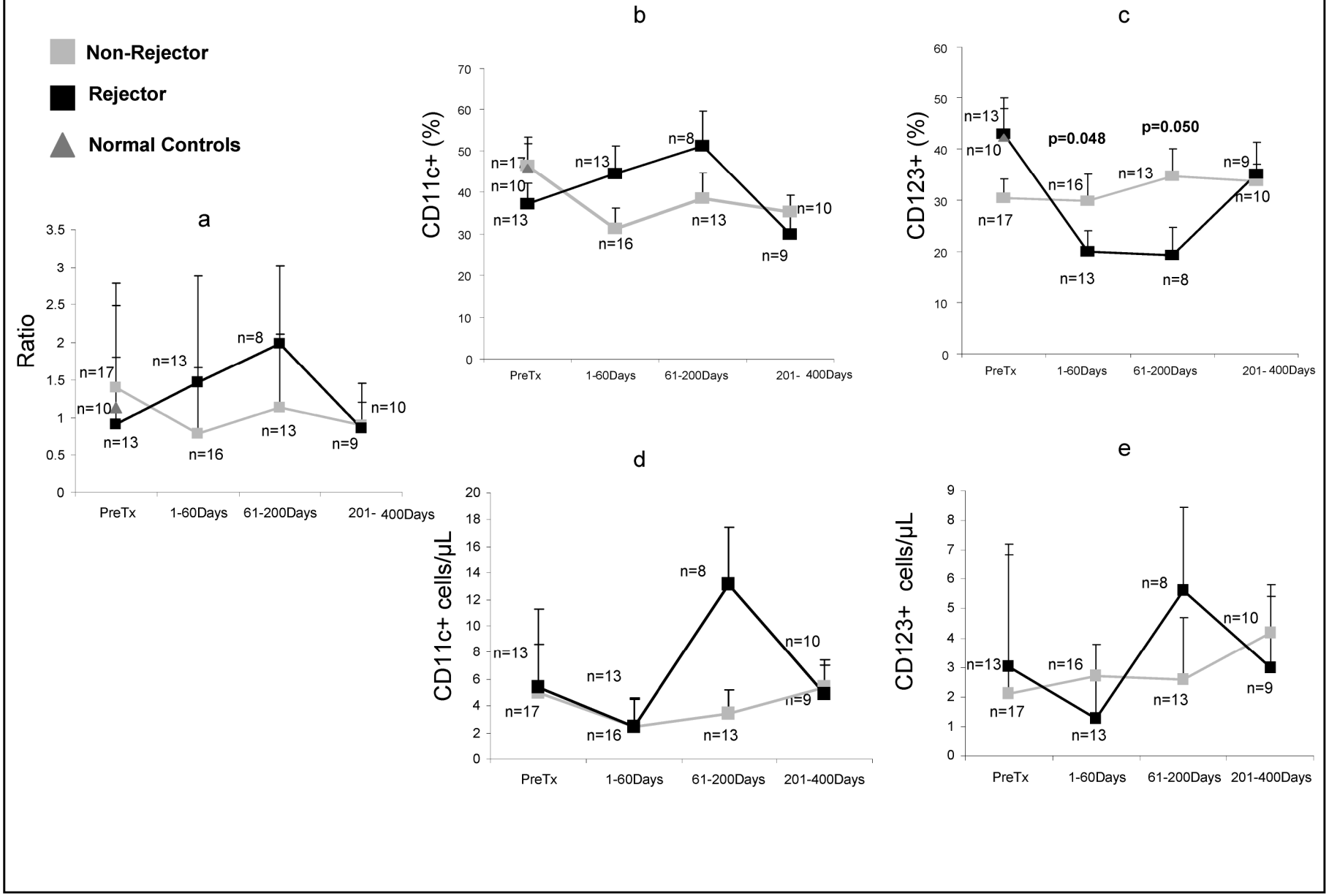
Figure legends:

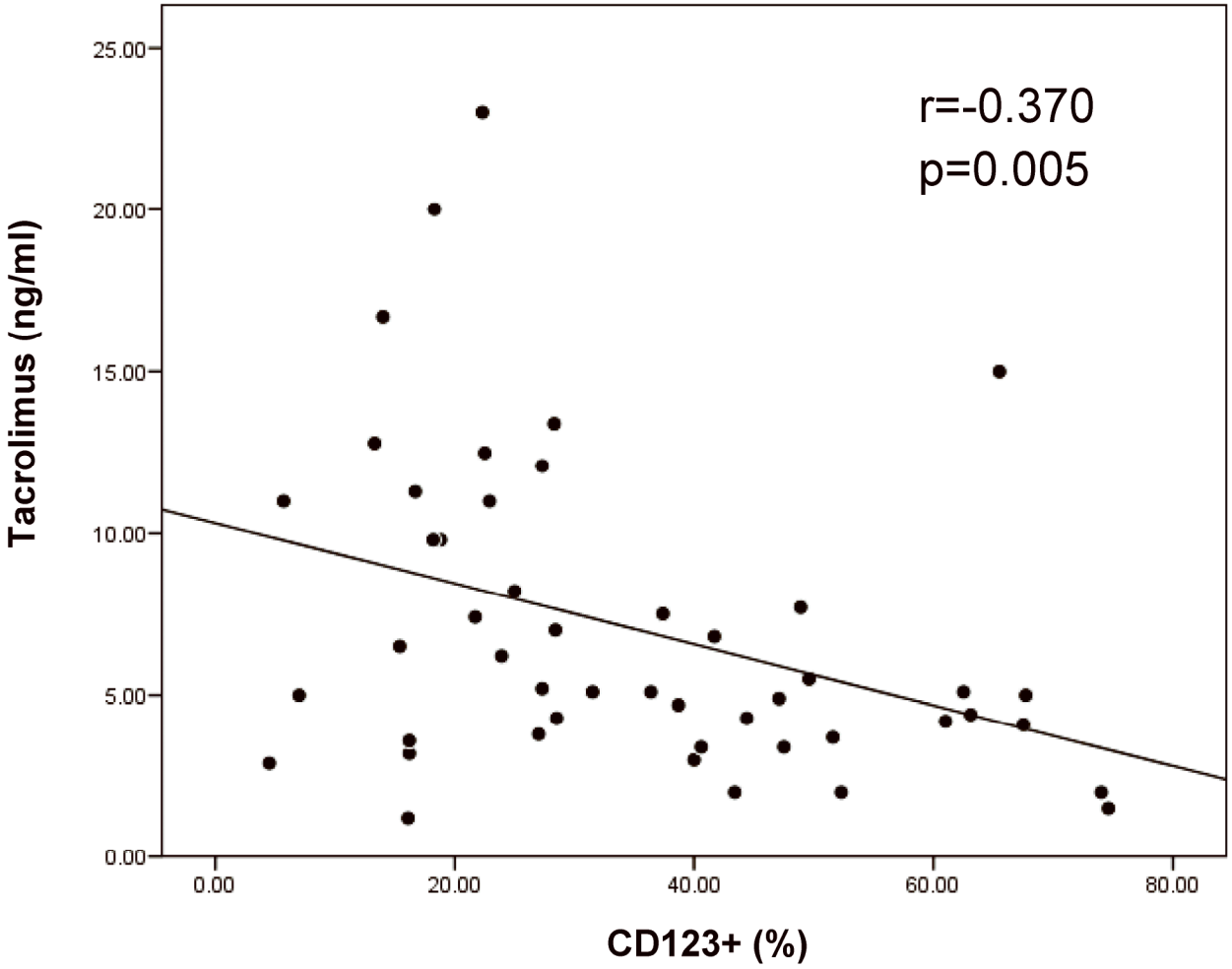
Figure 1. Flow cytometry gating strategy shows derivation of CD11c+ MDC and CD123+ PDC, from HLA-DR^{high} Lineage negative (Lin-) PBL in a Rejector and Non-Rejector after LTx with rATG.

Figure 2: Longitudinal changes in DC subset frequencies, absolute counts, and the MDC: PDC ratio in Rejectors and Non-Rejectors. Also shown are mean frequencies in 10 normal adult human subjects .

Supplementary Figure 1. A significant negative correlation is seen between FKWB (whole blood Tacrolimus concentrations in ng/ml) and PDC frequencies in 48 cross-sectional subjects.


Non-Rejector
Rejector
Normal Controls
a
Ratio
3.5
3
2.5
2
1.5
1
0.5
0
n=17
n=10
n=13
n=13
n=16
n=8
n=13
n=9
n=10
PreTx
1-60Days
61-200Days
201- 400Days
b
CD11c+ (%)
70
60
50
40
30
20
10
0
n=17
n=10
n=13
n=13
n=16
n=8
n=13
n=9
n=10
PreTx
1-60Days
61-200Days
201- 400Days
c
CD123+ (%)
60
50
40
30
20
10
0
n=13
n=10
n=17
p=0.048
n=16
n=13
n=13
p=0.050
n=8
n=9
n=10
PreTx
1-60Days
61-200Days
201- 400Days
d
CD11c+ cells/µL
20
18
16
14
12
10
8
6
4
2
0
n=13
n=17
n=13
n=16
n=8
n=13
n=10
n=9
PreTx
1-60Days
61-200Days
201-400Days
e
CD123+ cells/µL
9
8
7
6
5
4
3
2
1
0
n=13
n=17
n=16
n=13
n=8
n=13
n=10
n=9
PreTx
1-60Days
61-200Days
201-400Days

Type of file: figure
Label: 3
Filename: supplementary figure 1.tif


r=-0.370
p=0.005
Tacrolimus (ng/ml)
25.00
20.00
15.00
10.00
5.00
0.00
0.00
20.00
40.00
60.00
80.00
CD123+ (%)

Type of file: table
Label:
Filename: Supplementary Tables.doc

Supplementary Table 1: Primary diagnoses leading to liver transplantation.

Diagnosis	Rejectors	Non-Rejectors
Maple Syrup Urine Disease	7	9
Crigler Najar Syndrome	2	0
Fulminant Hepatic Failure	3	1
Sclerosing Cholangitis	4	1
Biliary Atresia	9	11
Wilsons Disease	1	0
Polycystic Disease	0	1
Methylmelonic acidemia	1	2
Autoimmune hepatitis	0	2
Histiocytosis	0	1
Interahepatic cholestasis	0	1
Cystic Fibrosis	0	2
Tyrosinemia	1	1
Cryptogenic cirrhosis	0	2
Bile Duct paucity	0	1
Congenital HCV	1	0
Alagilles Syndrome	2	1
Congenital hepatic fibrosis	1	2
Neonatal Hepatitis	0	1
Metabolic Disease	1	1
Rhabdoid tumor	1	0
Gastroschisis	0	1
Carolis Disease	1	0
Alagilles Disease	0	1
Hepatoblastoma	0	1
Total	35	43

Supplementary Table 2: Longitudinal changes in DC subset frequencies and ratio in 30 children.

Parameter	Pre-Tx (R=13 vs NR =17)	1-60 Days (R=13 vs NR=16)	61-200 Days (R=8 vs NR=13)	201-400 Days (R=9 vs NR=10)
MDC% (Median±SEM)	37.3±4.9 vs 46.4± 5.4 p=NS	44.4±6.8 vs 31.3±5.0 p=NS	51.2±8.4 vs 38.6±6.0 p=NS	30.0±5.6 vs 35.3±4.0 p=NS
PDC% (Median±SEM)	42.9±5.0 vs 30.3±3.8 p=NS	20.0±13 vs 29.9±5.2 **p=0.048**	19.25±5.5 vs 34.6±8.4 **p=0.05**	35.1±6.2 vs 33.7±3.3 p=NS
MDC:PDC Ratio (Median±SEM)	0.91±1.87 vs 1.4 ± 0.41 p=NS	1.47 ±1.42 vs 0.78±0.89 p=NS	1.99±1.04 vs 1.13± 1.99 p=NS	0.85±0.60 vs 0.90±0.60 p=NS

Supplementary Table 3: Longitudinal changes in DC subset absolute counts and ratio in 30 children.

Parameter	Pre-Tx (R=13 vs NR =17)	1-60 Days (R=13 vs NR=16)	61-200 Days (R=8 vs NR=13)	201-400 Days (R=9 vs NR=10)
MDC cells/μL (Median±SEM)	5.40±3.19 vs 5.02± 6.26 p=NS	2.42±2.17 vs 2.44±2.07 p=NS	13.10±4.38 vs 3.40±1.81 p=NS	4.87±2.18 vs 5.40±2.10 p=NS
PDC cells/ μL (Median±SEM)	3.03±3.83 vs 2.10±5.10 p=NS	1.28±1.48 vs 2.71±1.08 p=NS	5.60±2.86 vs 2.60±2.10 p=NS	2.97±2.44 vs 4.18±1.65 p=NS
MDC:PDC Ratio (Median±SEM)	0.91±1.87 vs 1.4 ± 0.41 p=NS	1.47 ±1.42 vs 0.78±0.89 p=NS	1.99±1.04 vs 1.13± 1.99 p=NS	0.85±0.60 vs 0.90±0.60 p=NS