

SUPPLEMENTARY TABLES

Supplementary Table 1. Top 10 up and top 10 down differentially expressed lncRNAs in PT vs NM.

lncRNAs	Fold-change (PT/NM)	Style	P-value	FDR
ENST00000550851	12.04	up	0.000151	0.0031
ENST00000554679	10.98	up	0.0000988	0.00263
ENST00000544679	8.44	up	0.0008706	0.00931
ENST00000497498	8.29	up	0.0000172	0.00105
n345207	6.72	up	0.0000078	0.000656
ENST00000546740	6.16	up	0.0000045	0.000525
ENST00000540885	5.58	up	0.0001438	0.00308
ENST00000497139	5.44	up	0.0000634	0.00209
ENST00000579474	5.22	up	0.0000304	0.00142
n378874	5.19	up	0.0000864	0.00253
n382289	27.78	down	0.0000002	0.0000984
ENST00000424969	21.28	down	0.0000018	0.000354
n334169	15.63	down	0.0000002	0.0000984
ENST00000390319	12.20	down	0.0000006	0.000197
n335875	10.99	down	0.0000028	0.000459
ENST00000390309	10.00	down	0.0000072	0.000656
n383670	10.00	down	0.000027	0.00133
n336760	9.09	down	0.0000182	0.00105
n335821	9.09	down	0.0000381	0.00163
ENST00000572964	9.09	down	0.0004371	0.00582

Supplementary Table 2. Top 10 up and top 10 down differentially expressed lncRNAs in MLN vs NM.

lncRNAs	Fold-change (MLN/NM)	Style	P-value	FDR
ENST00000554679	12.02	up	0.0000016	0.000796
ENST00000497498	10.30	up	0.0000028	0.000796
ENST00000466541	7.03	up	0.0000077	0.00103
ENST00000550851	7.01	up	0.0013179	0.0137
ENST00000544679	6.35	up	0.0003233	0.00831
ENST00000504484	5.91	up	0.0000048	0.000796
ENST00000579474	5.62	up	0.0000041	0.000796
n332986	5.15	up	0.0001443	0.00737
ENST00000526907	4.99	up	0.0002169	0.00808
ENST00000481038	4.45	up	0.0113058	0.0441
n382289	11.90	down	0.0000025	0.000796
ENST00000424969	11.49	down	0.000063	0.00465
ENST00000560210	10.75	down	0.0000052	0.000796
ENST00000572964	10.00	down	0.0002002	0.00808
n405560	7.69	down	0.0000187	0.002
n368675	5.56	down	0.005328	0.029
n387234	5.26	down	0.0014105	0.0143
ENST00000491695	4.76	down	0.0000519	0.00428
ENST00000491695	4.76	down	0.0007611	0.011
ENST00000486141	4.55	down	0.0243679	0.071

Supplementary Table 3. Top 20 core lncRNAs with high degree in PT.

lncRNA	Clustering coefficient	Dgree	Style
ENST00000522190	0.66007905	23	up
ENST00000478958	0.62770563	22	up
ENST00000505982	0.68571429	21	up
n378919	0.64761905	21	up
ENST00000439231	0.63809524	21	up
n345275	0.82631579	20	down
n365932	0.82631579	20	up
ENST00000465881	0.82631579	20	up
ENST00000490162	0.82631579	20	up
ENST00000511430	0.82631579	20	down
ENST00000390593	0.82631579	20	down
ENST00000579474	0.7	20	up
n342918	0.85380117	19	down
ENST00000495707	0.67836257	19	up
ENST00000482470	0.66666667	19	up
n373767	0.82352941	18	down
n335875	0.82352941	18	down
n386586	0.82352941	18	up
ENST00000472617	0.81045752	18	down
n345687	0.77124183	18	up

Supplementary Table 4. Top 20 core mRNAs with high degree in PT.

Gene symbol	Clustering coefficient	Dgree	Style
GGTA1P	0.82631579	20	down
KIAA0101	0.66666667	19	up
KLF4	0.8496732	18	down
SLFN13	0.82352941	18	down
ITM2A	0.76470588	18	down
TPH1	0.91911765	17	down
HEPACAM2	0.90441176	17	down
ZG16	0.875	17	down
ANGPT2	0.81617647	17	up
GCG	0.81617647	17	down
SLC6A6	0.80882353	17	up
KAL1	0.78676471	17	up
TLR7	0.78676471	17	down
ITLN1	0.77941176	17	down
DIAPH3	0.75735294	17	up
CKAP2	0.75	17	up
RNASE6	0.74264706	17	down
TOP2A	0.67647059	17	up
GIMAP7	0.79166667	16	down
KIF11	0.74166667	16	up

Supplementary Table 5. Top 20 core lncRNAs with high degree in MLN.

lncRNA	Clustering coefficient	Dgree
ENST00000358476	0.72105263	20
ENST00000481038	0.67894737	20
ENST00000551987	0.67894737	20
FR0204559	0.67894737	20
ENST00000601390	0.78947368	19
ENST00000512810	0.81699346	18
ENST00000491824	0.79084967	18
ENST00000578243	0.71895425	18
ENST00000491331	0.66013072	18
ENST00000449838	0.77205882	17
ENST00000588806	0.75735294	17
ENST00000368256	0.72794118	17
ENST00000479928	0.66176471	17
ENST00000495178	0.52941176	17
ENST00000435872	0.825	16
ENST00000480320	0.825	16
ENST00000510037	0.825	16
n344604	0.825	16
n373212	0.825	16
ENST00000478698	0.80833333	16

Supplementary Table 6. Top 20 core mRNAs with high degree in MLN.

Gene symbol	Clustering coefficient	Dgree
ARHGAP15	0.7047619	21
CXCL13	0.7	21
ITK	0.72105263	20
GOLM1	0.66315789	20
CD3G	0.78947368	19
FGL2	0.78947368	19
FAIM3	0.73684211	19
CASP5	0.71345029	19
CYP1B1	0.71345029	19
NXPE1	0.67836257	19
GNG2	0.82352941	18
HELLS	0.81045752	18
GTSF1	0.79084967	18
CA1	0.73856209	18
CCDC144A	0.62091503	18
SLAIN1	0.80882353	17
HLA-DPA1	0.77205882	17
LIFR	0.60294118	17
AKT3	0.8	16
NAT2	0.8	16

Supplementary Table 7. Sequences of the primers used in quantitative RT-PCR.

Transcripts	Sequence
FN1-227	F:5'-CCCTGCCAGCTTAAGAACAG-3' R:5'-CCACTTTGCCACTCTCTTCC-3'
lnc-CDR1-1:2	F:5'-CCGGATAATTTGGGTCTTCC -3' R:5'-GGAGGCCATTGGAAGATGT-3'
lnc-RCHY1-4:1	F:5'-ATTTCAACCTGGGCAACAAG-3' R:5'-CGGAAGTCTTCAGGGAATCA-3'
SHROOM3-203	F:5'-CAGTTTCCCTGGTCAAAGGA-3' R:5'-TGTCCATCCATGTCTCTGGA-3'
lnc-RTN4-2:2	F:5'-GAAAGCACACTTGGCATGAA-3' R:5'-ATGTTTTTCAGAGCGGGTCAC-3'
CBX3-208	F:5'-CTGAGCAGAAACCAAGTTG-3' R:5'-ACCCAAACAACCTCACAACG-3'
VCAN-209	F:5'-TTGAGAAGATGTTGATGAC-3' R:5'-TTATAGCCCTTTTACATTG-3'
LGR5-206	F:5'-ACCGTCTGCAATCAGTTAC-3' R:5'-ATGGAAGTTGCCTGTTTAC-3'
lnc-ZFYVE26-1:1	F:5'-CTCATGGAAACAAGCACTG-3' R:5'-TGCCAGATACCTGTCATTG-3'
Lnc-MIR29B2CHG93	F:5'-ACCAGCATGAATGTGTTTCG-3' R:5'-ATCGACACCCAATACATTG-3'
GAPDH	F:5'-GATTCCACCCATGGCAAATTC-3' R:5'-AGCATCGCCCCACTTGATT-3'