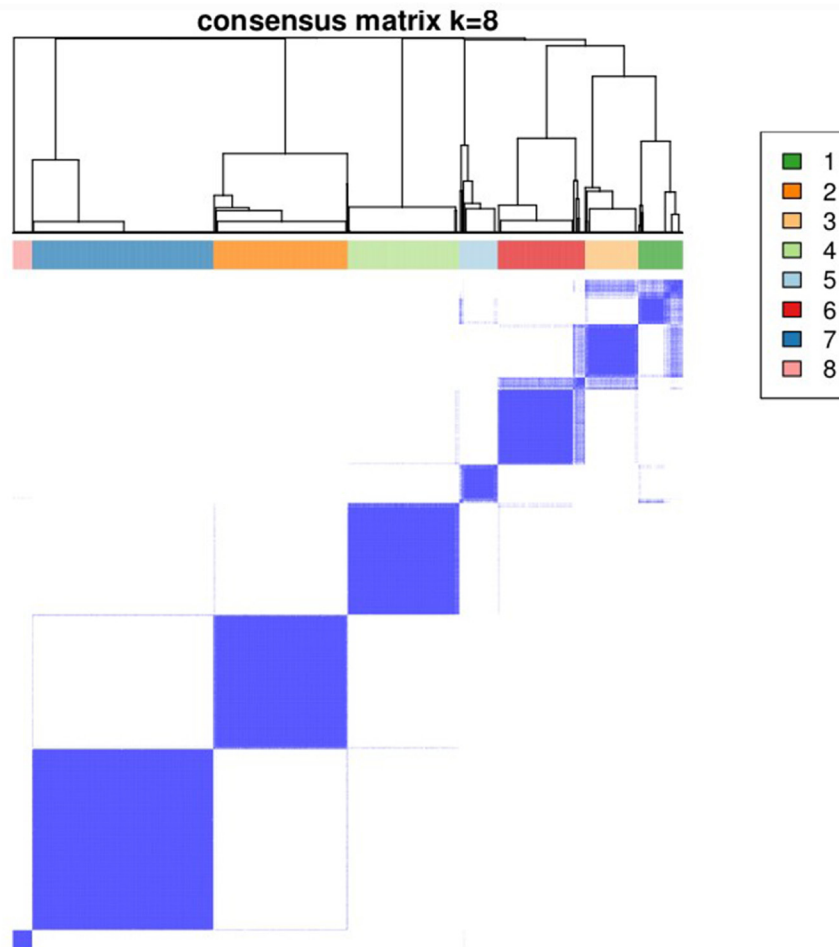


# Identification of skin-related lncRNAs as potential biomarkers that are involved in Wnt pathways in keloids

## Supplementary Materials



Supplementary Figure 1: Original image produced by R Soft on how genes involving in Wnt pathway clustered in keloid.

**Supplementary Table 1: List of clustered functions in each module of the network in Wnt pathway in keloid.** See [Supplementary\\_Table\\_1](#)

**Supplementary Table 2: List of Wnt-genes clustered in each functional module of the network in Wnt pathway in keloid.** See [Supplementary\\_Table\\_2](#)

**Supplementary Table 3: The interactive profile of lncRNAs to 17 skin-related Wnt-genes ranking by Pearson correlation coefficient.** See [Supplementary\\_Table\\_3](#)

**Supplementary Table 4: Primers of validated skin-related lncRNA-gene pairs that involved in Wnt pathway in keloids**

Molecules	Sequence of Forward (F) and Reverse (R) Primer	Annealing Temperature (°C)	Primer length (bp)
12 skin-related Wnt genes/mRNAs/transcripts due to reverse network selection			
MMP2	F:5' GCCCAAGAATAGATGCTGACTG3' R:5' GAAAGGAGAAGAGCCTGAAGTG3'	60	256
CDKN2A	F:5' CATTTCATGTGGGCATTTCTTG3' R:5' CTTTGGTTCTGCCATTTGCTA3'	60	140
KRT5	F:GATGAAATCAACAAGCGTACCA R:ACCTCAGCGATGATGCTATCC	60	248
KRT14	F:5' GAACAAGATTCTCACAGCCACAG3' R:5' TCTCCACATTGACATCTCCACC3'	60	296
TCF4	F:5'CAGCCATTCTCTTCTGCCAAA3' R :5' CAGGTTCTCATCACCCCTCGTC3'	60	181
ANTXR1	F:5'CTGCCAGGAGGAGACACTTAC3' R :5' TTTTCATAATAAATCTGCTCACTG3'	60	68
GJB6	F:5'GGGTGACGAGCAAGAGGACTT3' R :5' TGCGAGTGGTTTTCGTGCC3'	60	182
SIX1	F:5'TGCCTAAATGTCTTAATGCTC3' R :5' CAGGTTGCCAGATTCGTT3'	60	287
AKT1	F:5'CACACCACCTGACCAAGATG3' R :5' GCACCCGAGAAATAAAAACC3'	60	191
TGFB1	F:5'CCGACTACTACGCCAAGGA3' R :5' CTGAGGTATCGCCAGGAAT3'	60	247
KRAS	F:5'ATTAGTGTCATCTTGCCTCCCT3' R :5' CAGCAGCAGTAAATCTTATGGTT3'	60	97
TWIST1	F:5'GACAGTGATTCCCAGACGG3' R :5' GTCCATAGTGATGCCTTTCCT3'	60	190
7 most co-expressed lncRNAs characterized with array-detected significant alteration in keloids			
CACNA1G-AS1	F:5' CTGGCAAGGTTGAGTAGGCT3' R:5' TGCTCCCTTCACACGGTCA3'	60	173
HOXA11-AS	F:5' TAAACCGCCAACAGCCAGAA3' R:5' GGGAAAGATGAGGGGAGAGG3'	60	107
LINC00312	F:5' GGTCAGTCCTATGCTTATCCCTT3' R:5' ATGCTTTGCTCCTGTTGCTCT3'	60	194
RP4-794H19.4	F:5'TCTAAGGACCACTCTATTACCCC3' R :5'GATGTAGCCAGCAGGAAAGCC3'	60	117
AP001476.4	F:5'AGCAGCCGCACTAAGACACT3' R :5'GTGTTTGAACGCGAGAGGGT3'	60	88
RP11-91I11.1	F:5'AAGCAAAATCGTCCTGTTCCC3' R :5'CCCAGCTTAGTTCTTCTCCAATG3'	60	98
AC004074.3	F:5'GCGGGACCCTTTTTATTGC3' R :5'CCTGTTCTTGAAGTTGGGGTTC3'	60	74
Internal molecular reference			
β-actin	F:5' GTGGCCGAGGACTTTGATTG3' R:5' CCTGTAAACAACGCATCTCATATT3'	60	73

**Supplementary Excel 1: LncRNA expression profiling data.** See [Supplementary\\_Excel\\_1](#)

**Supplementary Excel 2: coding RNA expression profiling data.** See [Supplementary\\_Excel\\_2](#)

**Supplementary Excel 3: Differentiated LncRNA expression profiling data.** See [Supplementary\\_Excel\\_3](#)

**Supplementary Excel 4: Differentiated coding RNA expression profiling data.** See [Supplementary\\_Excel\\_4](#)