Table S3 : Oncogenic signatures enriched in the transcripts showing Area under the curve differentiation between early and late stage

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| **Term** | **Overlap** | **Adjusted P-value** | **Genes** |
| ESC\_V6.5\_UP\_EARLY.V1\_DN | 11/172 | 0.00 | *COL1A1;COL3A1;COL1A2;FAP;PLAU;SERPINF1;COL11A1;PCOLCE;AEBP1;FBLN2;LOXL1* |
| ATF2\_S\_UP.V1\_DN | 11/187 | 0.00 | *COMP;SFRP4;TNFAIP6;COL11A1;MYBPH;CHI3L1;ITGBL1;GAS1;FBLN2;GABRD;CCL17* |
| RB\_P107\_DN.V1\_UP | 9/140 | 0.00 | *COL1A1;COL1A2;SRPX2;COL5A1;SERPINF1;TMEM119;PCOLCE;FBLN2;LOXL1* |
| CAHOY\_ASTROGLIAL | 6/100 | 0.01 | *COL5A1;OGN;OMD;ITGBL1;AEBP1;WISP2* |
| BMI1\_DN.V1\_UP | 7/147 | 0.01 | *MFAP5;LRRC15;MMP7;SRPX2;FAP;TNFAIP6;GFPT2* |
| AKT\_UP.V1\_DN | 7/187 | 0.02 | *SFRP2;C1S;OGN;GAS1;ITGBL1;NR1D1;LIMD1* |
| PRC2\_EZH2\_UP.V1\_DN | 7/194 | 0.02 | *SRPX2;PPP2R1B;TNFAIP6;GFPT2;COL10A1;PAMR1;ASPN* |
| MEL18\_DN.V1\_UP | 6/141 | 0.02 | *MMP7;SRPX2;TNFAIP6;FAP;GFPT2;VEGFA* |
| BMI1\_DN\_MEL18\_DN.V1\_UP | 6/145 | 0.02 | *LRRC15;MMP7;FAP;TNFAIP6;GFPT2;VEGFA* |