

Table 1. Expression of sulfation-related genes in axolotl limb blastemas and other tissues

| Gene | EB | MB | LB | Pal | ED | skin | brain | heart | kidney | liver | lung | spleen | testis |
|------------|-----|-----|-----|-----|-----|------|-------|-------|--------|-------|------|--------|--------|
| Ext1 | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ |
| Ext2 | ++ | ++ | ++ | ++ | ++ | - | ++ | ++ | ++ | + | ++ | ++ | + |
| Ext3 | ++ | ++ | ++ | ++ | ++ | + | ++ | ++ | ++ | + | ++ | ++ | + |
| HsGlce | ++ | ++ | ++ | ++ | ++ | + | +++ | ++ | +++ | ++ | ++ | ++ | ++ |
| NDST1 | +++ | +++ | +++ | +++ | +++ | + | ++ | ++ | ++ | ++ | + | + | ++ |
| NDST2 | ++ | ++ | ++ | ++ | ++ | - | ++ | + | ++ | + | + | + | ++ |
| NDST3 | - | - | - | - | - | - | + | - | - | - | - | - | - |
| NDST4 | - | - | - | - | - | - | + | - | - | - | - | - | - |
| HS2ST1 | ++ | ++ | ++ | ++ | ++ | + | ++ | ++ | ++ | ++ | ++ | ++ | ++ |
| HS3ST1 | ++ | ++ | ++ | ++ | ++ | + | ++ | ++ | ++ | ++ | ++ | - | - |
| HS3ST2 | - | - | - | - | - | + | ++ | ++ | ++ | + | + | - | ++ |
| HS3ST3B1 | ++ | ++ | ++ | ++ | ++ | + | ++ | ++ | ++ | + | + | - | - |
| HS3ST4 | ++ | ++ | ++ | ++ | ++ | + | ++ | + | ++ | + | - | - | ++ |
| HS3ST6 | ++ | ++ | ++ | ++ | ++ | + | ++ | ++ | ++ | ++ | + | + | ++ |
| HS6ST1 | ++ | ++ | ++ | ++ | ++ | + | ++ | ++ | ++ | + | + | ++ | + |
| Sulf1 | ++ | ++ | ++ | ++ | ++ | - | ++ | ++ | ++ | - | ++ | ++ | ++ |
| Sulf2 | + | + | + | + | + | - | ++ | ++ | ++ | - | ++ | ++ | ++ |
| GPC1 | ++ | ++ | ++ | ++ | ++ | + | + | - | + | - | - | - | + |
| GPC3 | - | - | - | - | - | - | + | - | - | - | - | - | - |
| GPC4 | ++ | ++ | ++ | ++ | ++ | - | ++ | ++ | ++ | + | ++ | ++ | ++ |
| GPC5 | ++ | ++ | ++ | ++ | ++ | - | + | - | - | - | - | + | + |
| GPC6 | - | - | - | + | ++ | - | + | - | - | - | - | - | + |
| SDC1 | ++ | ++ | ++ | ++ | ++ | ++ | + | - | ++ | + | + | - | + |
| SDC2 | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ |
| SDC3 | ++ | ++ | ++ | ++ | ++ | - | ++ | + | ++ | ++ | - | - | ++ |
| SDC4 | ++ | ++ | ++ | ++ | ++ | + | + | + | ++ | + | + | + | ++ |
| Serglycin | +++ | +++ | +++ | +++ | +++ | ++ | +++ | +++ | +++ | +++ | +++ | +++ | ++ |
| Agtrin | ++ | ++ | ++ | ++ | ++ | - | ++ | - | ++ | + | - | - | ++ |
| Collagen18 | +++ | +++ | +++ | +++ | +++ | + | +++ | +++ | +++ | ++ | ++ | ++ | +++ |

Compared to Phan ECM paper

NDST1 – she saw expression in both blastema and skin - same for us

*NDST2 – she saw expression in both blastema and skin – we do not detect expression in skin

NDST3 – she did not see expression in skin or blastema – same for us – only see expression (low) in brain

NDST4 – she did not see expression in skin or blastema – same as for NDST3 – brain only

HS6ST1 – she saw expression in both blastema and skin – same for us

HS2ST1 – she saw expression in both blastema and skin – same for us

*HS3ST1 – she saw expression in blastema but not skin - we saw expression in both but much lower in the skin (consistent)

HS3ST2 – she saw expression in the skin but not the blastema – same for us

*HS3ST3B1 – she saw expression in the blastema but not the skin – we saw very low level in the skin – but is expressed in the blastema (pretty much the same)

*HS3ST4 – she did not see expression in either skin or blastema – we saw expression in both blastema and very low in the skin