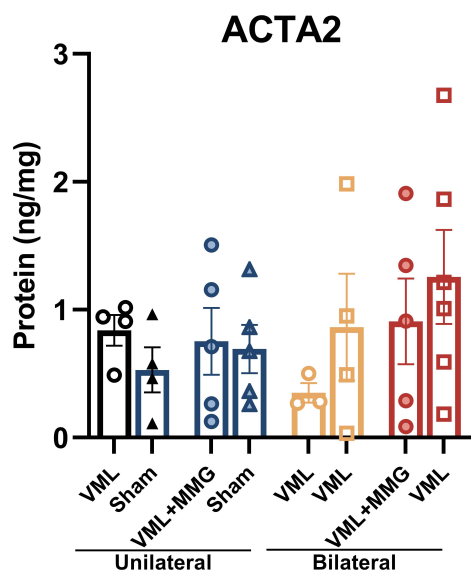
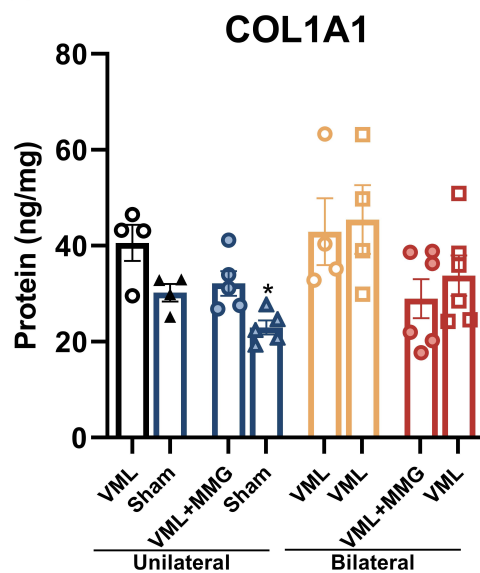
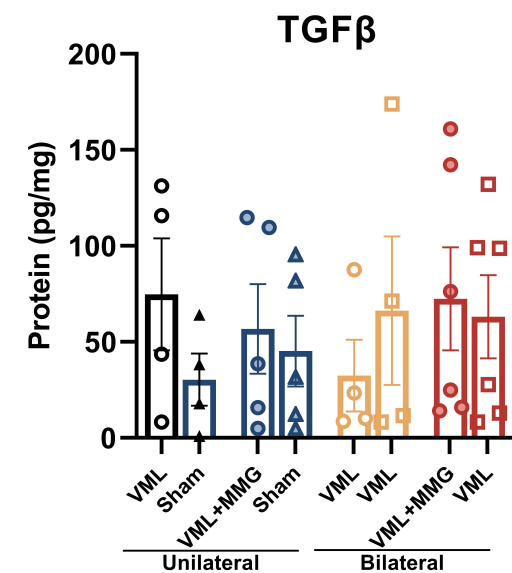
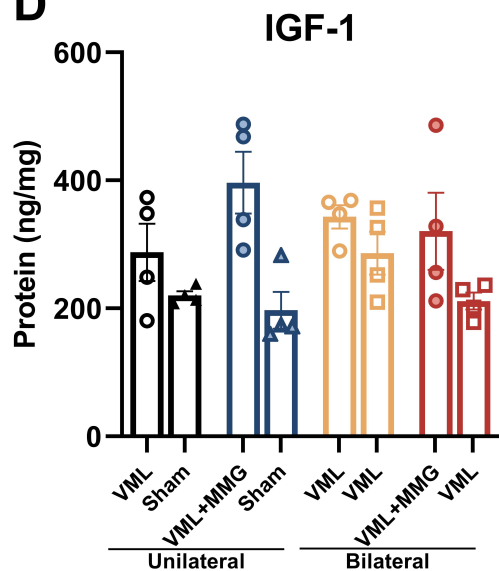
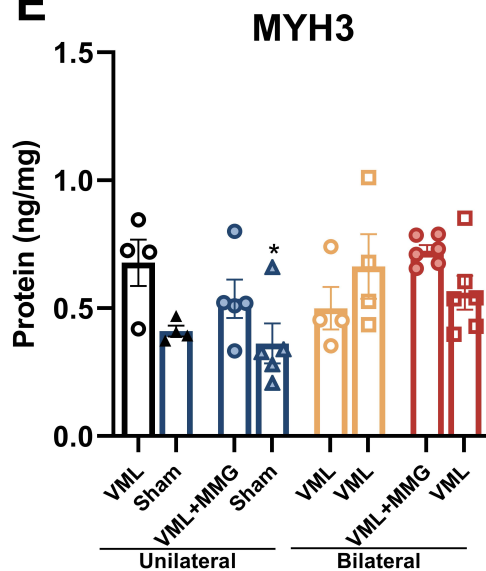
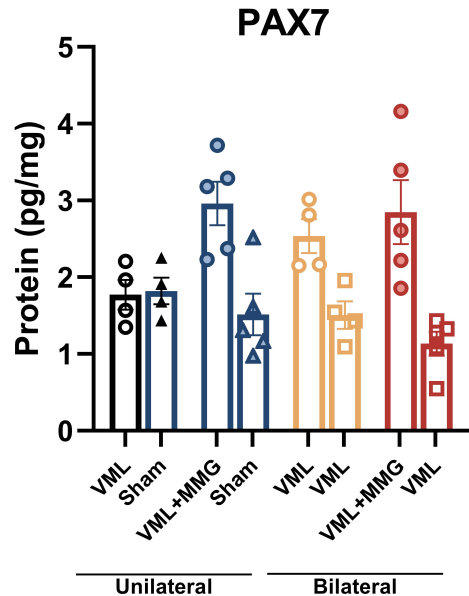
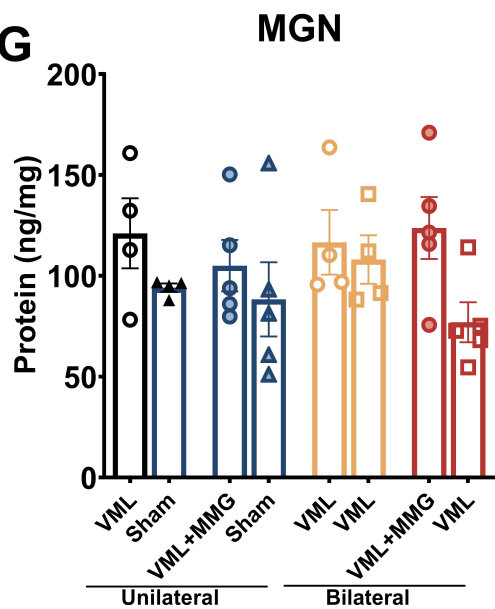
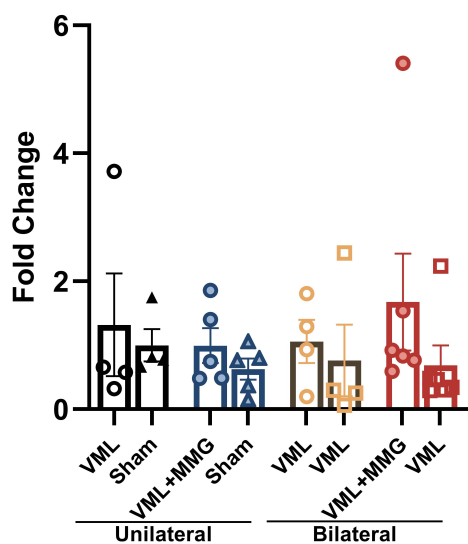
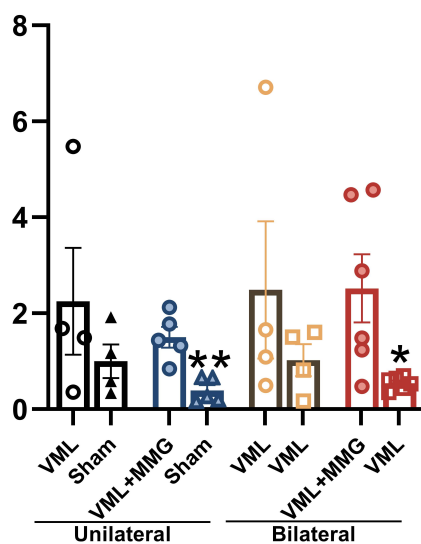
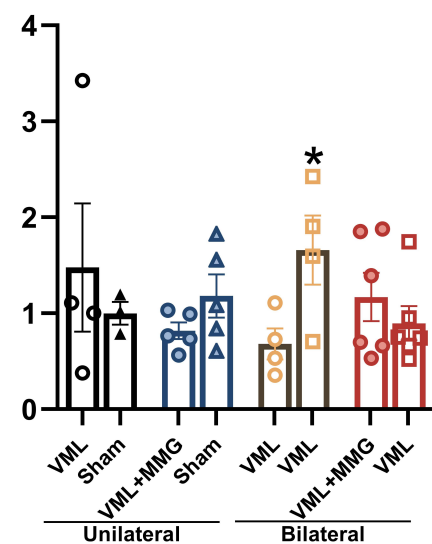
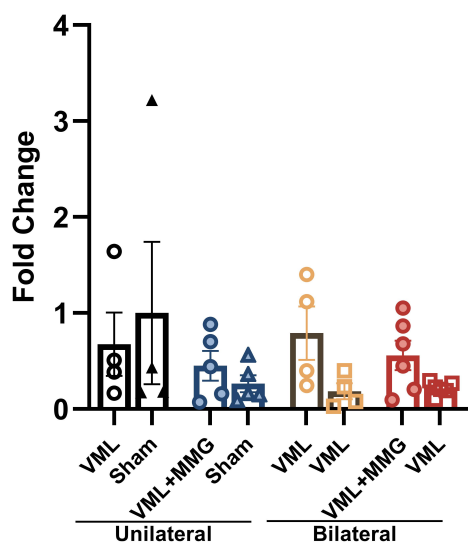
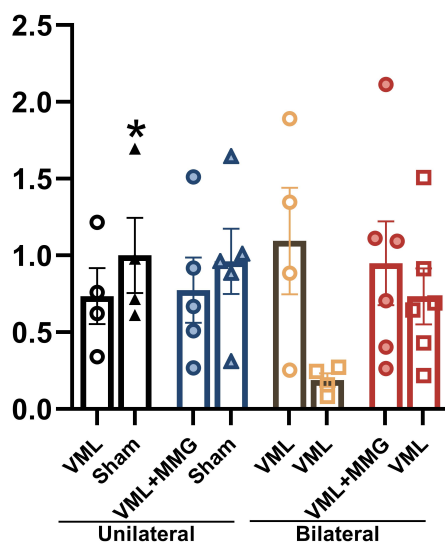
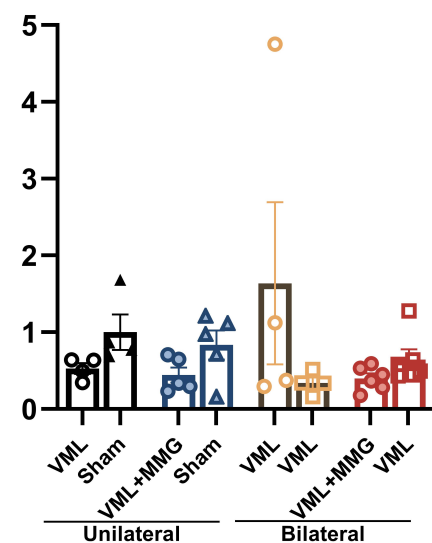
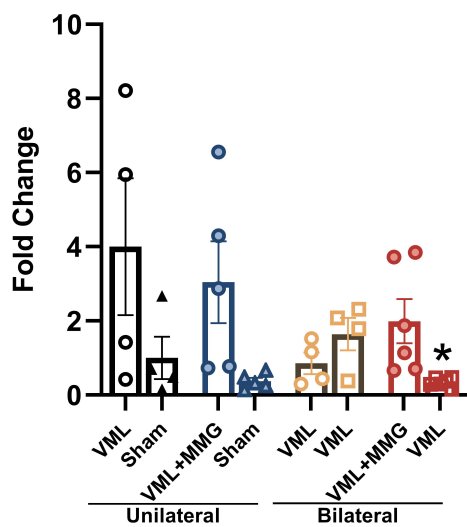
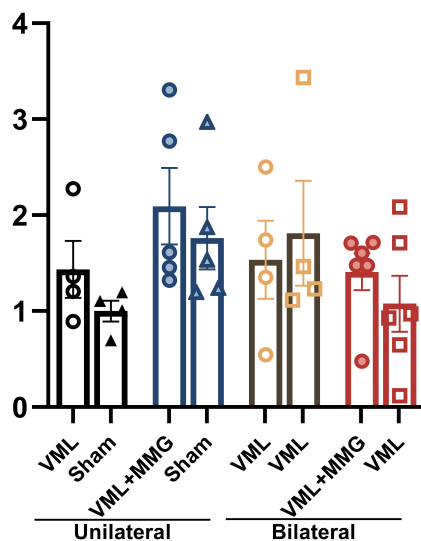


**A****B****C****D****E****F****G**

**A***Acta2***B***Col1a1***C***Tgfb***D***Igf1***E***Myh3***F***Pax7***G***Myog***H***MyoD*

**Table S1:** Primer Sequences for RT-qPCR

| Transcript | Strand  | Sequence                          | Accession Number |
|------------|---------|-----------------------------------|------------------|
| 18S        | Forward | 5'- GGAGGTAGTGACGAAAAATAACAAT -3' | NR_046237.2      |
|            | Reverse | 5'- TTGCCCTCCAATGGATCCT -3'       |                  |
| Acta2      | Forward | 5'- AAACCACCTATAACAGCATC -3'      | NM_031004.2      |
|            | Reverse | 5'- AGACAGAATATTTGCCGTTCTG -3'    |                  |
| Col1a1     | Forward | 5'- TGGATTCCAGTTCGTATG -3'        | NM_053304.1      |
|            | Reverse | 5'- AGTGATAGGTGATGTTCTGG -3'      |                  |
| GAPDH      | Forward | 5'- AAGTTCAACGGCACAGTCAAGG -3'    | NM_017008.4      |
|            | Reverse | 5'- CATACTCAGCACCAGCATCACC -3'    |                  |
| MGN        | Forward | 5'- TCCCAACCCAGGAGGTAAGT -3'      | NM_017115.3      |
|            | Reverse | 5'- CGCTGGAAGGTAAGTGAAC -3'       |                  |
| MyoD       | Forward | 5'- TCGGCTACATTGAAGGTC -3'        | NM_176079.2      |
|            | Reverse | 5'- GTAATCCATCATGCCATCAG -3;      |                  |
| TGFB       | Forward | 5'- GGAAATCAATGGGATCAGTC -3'      | NM_021578.2      |
|            | Reverse | 5'- CTGAAGCAGTAGTTGGTAAT -3'      |                  |
| MYH3       | Forward | 5'- TGGAGGACCAAATATGAGACG -3'     | NM_012604.1      |
|            | Reverse | 5'- CACCATCAAGTCCTCCACCT -3'      |                  |

18S (18S Ribosomal RNA); Acta2 (Actin Alpha 2, Smooth Muscle); Arg1 (Arginase 1); Col1a1 (Collagen Type I Alpha 1 Chain); GAPDH (Glyceraldehyde 3-phosphate Dehydrogenase); MGN (Myogenin); MyoD (Myogenic Differentiation 1); TGFB (Transforming Growth Factor Beta 1); MYH3 (Myosin Heavy Chain 3)

**Supplementary Figure 1: Intra-animal limb comparisons of protein markers of myogenesis and fibrosis.** Comparison of protein differences between different limbs in the same animal by experimental group at 8 weeks post-VML injury for (A) alpha smooth muscle actin (ACTA2), (B) collagen type 1 alpha 1 (COL1A1), (C) transforming growth factor beta (TGF $\beta$ ), (D) insulin-like growth factor (IGF), (E) myosin heavy chain 3 (MYH3), (F) PAX7, and (G) myogenin (MGN). Data is presented as mean  $\pm$  SEM. \* = P<0.05.

**Supplementary Figure 2: Intra-animal limb comparisons of transcriptional markers of myogenesis and fibrosis.** Comparison of transcriptional differences between different limbs in the same animal by experimental group at 8 weeks post-VML injury for (A) alpha smooth muscle actin (Acta2), (B) collagen type 1 alpha 1 (Col1a1), (C) transforming growth factor beta (Tgfb), (D) insulin-like growth factor (Igf1), (E) myosin heavy chain 3 (Myh3), (F) Pax7, (G) myogenin (Myog), and (H) myoblast determination protein 1 (MyoD). Data is presented as mean  $\pm$  SEM. \* = P<0.05.