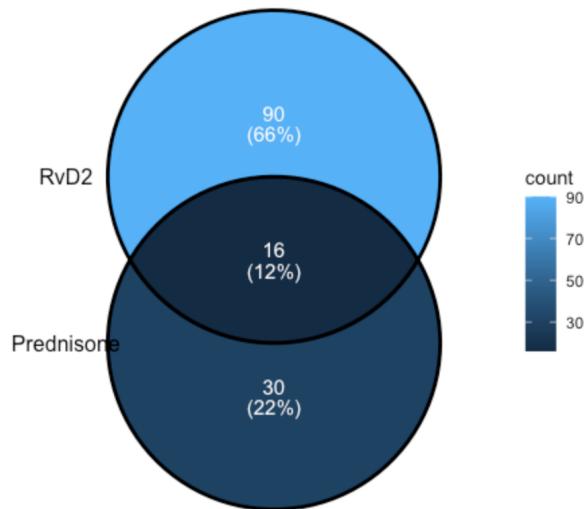


**Supplementary Figure 1. Resolvin-D2 increases fiber size in dystrophic muscles.** Male *mdx*-DBA/2J were treated with resolvin-d2 (RvD2, 5  $\mu\text{g}/\text{kg}$ ) or saline. The tibialis anterior muscle was collected after four weeks to quantify myofiber size. **A)** Immunofluorescence of muscle fibers. **B)** Frequency distribution curve of the myofiber cross-sectional areas. Data are presented as mean  $\pm$  SEM. Means were compared using two-tailed unpaired Student's t-tests. \* $p < 0.05$ , \*\* $p < 0.01$ . n=4-5.

**Genes up by treatment in Cluster\_0**



**Supplementary Figure 4. Venn diagram of upregulated genes in anti-inflammatory macrophages (cluster 0).** Male mdx-DBA/2J mice were treated weekly with either resolvin-d2 (RvD2, 5 µg/kg), prednisone (2 mg/kg) or vehicle for six months. Macrophages were profiled by scRNaseq.

Gene	Forward Sequence	Reverse Sequence
<i>Mrc1</i>	TGGACACCTCTCAGTGGCTAA	GACACCTGGTTAGCAGGT
<i>Csf1r</i>	CAGGTGGTGCTGTGTGAT	GGAGTTGTAGCTCGGGAGAA
<i>Clec10a</i>	CTGGTGCGTTGTCATCTGT	GCTCAGCTCAGGTAGCAGGT
<i>Il10rb</i>	TTGCTGAAGGAGACAGTGGA	TGGAGAGAGCAGAGAGAGGA
<i>Fcgr2b</i>	GGTGGAGATGAAGGAAGGAG	TCTTGGCAGGTGATGATGAG
<i>Gapdh</i>	CCCAGAAGACTGTGGATGG	ACACATTGGGGTAGGAACA

**Supplementary Table 1.** List of primers used in qPCR analyses