

CORRIGENDUM

Alway, S. E., Carson, J. A. and Roman, W. J. Adaptation in myosin expression of avian skeletal muscle after weighting and unweighting. *Journal of Muscle Research and Cell Motility* 16, 111–122 (1995).

In our original manuscript we indicated that the myosin heavy chain data was preliminary and we had not attempted further to characterize the bands. Nevertheless, the authors regret to have learned and now report that errors resulted in incorrectly identified lanes and samples in Figures 4 and 5. The new gels that accompany this erratum were run in the current laboratory of the first author, but using samples and gel conditions originally used in this manuscript. The new gels are representative of gels used for data collection in the original manuscript.

Figure 4

Preliminary data showing myosin heavy chains expressed in control and stretched anterior latissimus dorsi (ALD), and neonatal and adult patagialis (PAT) muscles. Whole muscle protein (0.3 µg) was loaded to each lane of a 9% SDS gel, which had a 3.5% stacking gel. Silver staining was used to visualize the heavy chains. Lanes from left to right:

Lanes 1 = ALD from a bird that did not receive stretch on either wing. Lane 2 = control ALD muscle from a bird that received stretch on the contralateral wing. Note the principal expression of SHC1 and SHC2 in lanes 1 and 2. Lane 3 = ALD stretched for 7 days. Lane 4 = adult ALD adult PAT co-electrophoresed. Lane 5 = ALD stretched for 14 days. Lane 6 = ALD stretched for 21 days. Note the presence of fast and developmental HCs in the stretched ALD muscles (evidence of developmental myosin is by comparison to lane 14). Lane 7 = ALD after 30 days of stretch. Lane 8 = ALD after stretching for 30 days and unweighting for 30 days (i.e. day -30). Lane 9 = ALD after 30 days of stretch and 60 days of unweighting (i.e., day -60). (The contralateral control muscle to lane 9 is shown in lane 11). Note the progressive decrease in SHC2 and increase in SHC1 and the persistence of a fast developmental HC during unweighting. Lane 10 = adult ALD that was stretched for 30 days and adult PAT co-electrophoresed. Lane 11 = contralateral control unstretched ALD from a -60 day bird. Lane 12 = control ALD sample from a two-week-old bird showing the primary expression of SHC₁. Lane 13 = neonatal PAT muscle. Lane 14 = embryonic ALD and embryonic PAT co-electrophoresed. Note the presence of an embryonic-like developmental myosin heavy chain (EM) in stretched and stretched-unweighted muscles, but the absence of these HCs in control ALD muscles. FHC₂ = fast myosin two heavy chain, FHC₁ = fast myosin one heavy chain, SHC₂ = slow myosin-two heavy chain, SHC₁ = slow myosin one heavy chain.

The SDS gels were 0.75 mm thick and sample separation occurred for 26 h at a constant voltage (275 v). The buffers were maintained at 4° C by a circulation unit (NestLab). The top chamber buffer was 75 mM Tris (pH 8.8), 198 mM glycine, and 0.1% SDS (w/v). The bottom chamber buffer was 37.5 mM Tris (pH 8.8), 99 mM glycine and 0.05% SDS (w/v). Separating gels consisted of: acrylamide (T = 8.8%, C = 2.0%), 34% glycerol (v/v), 200 mM Tris (pH 8.8), 100 mM glycine, 0.4% SDS (w/v), 0.01% APS (w/v) and 0.003% TEMED (v/v). Stacking gels consisted of acrylamide (T = 3.5%, C = 2.6%), 10% glycerol (v/v), 70 mM Tris (pH 6.7), 0.4% SDS (w/v), 0.01% APS (w/v) and 0.003% TEMED. Separating gels were allowed to polymerize for 2 h at room temperature before pouring the stacking gel. The stacking gel polymerized for 1 h before loading the samples.

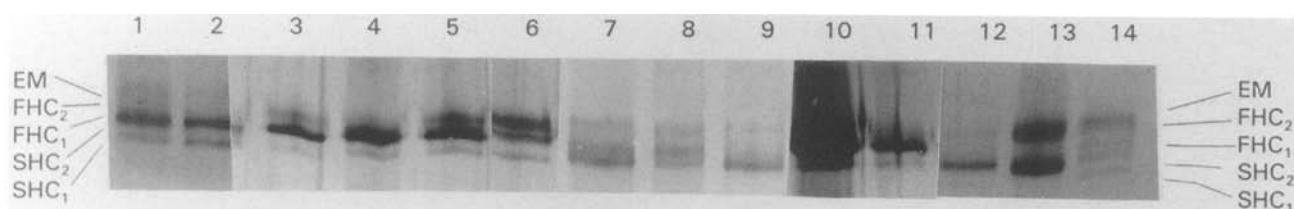
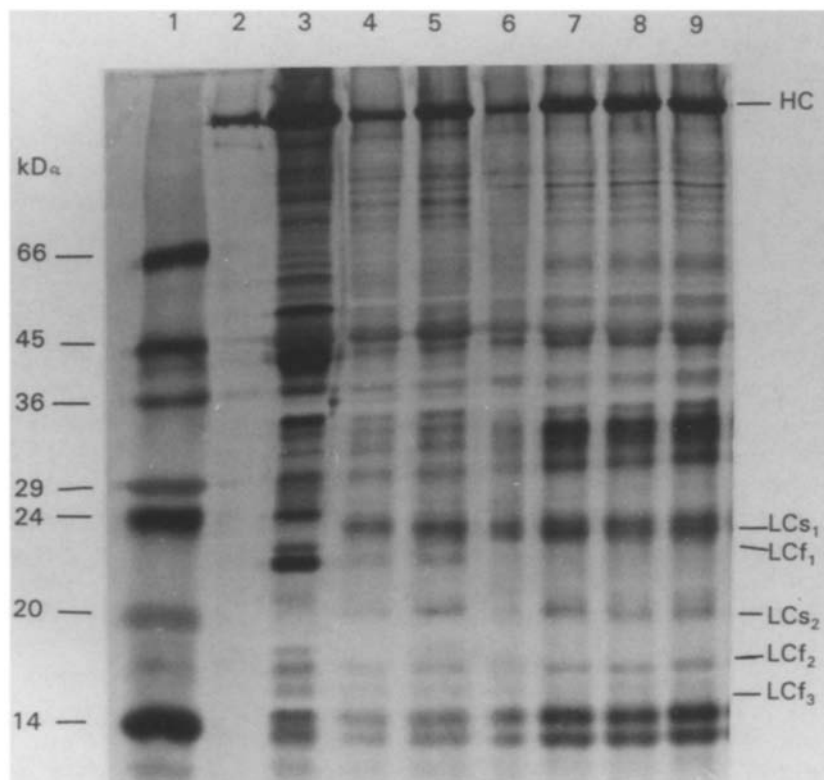


Fig. 4.

Figure 5

Myosin light chain expression in control and stretched ALD. Whole muscle protein (0.5 μ g) was loaded to each lane of a 15% SDS gel with a 3.5% stacking gel. Silver staining was used to visualize the myosin light chains. Lanes are from left to right. Lane 1 = molecular weight marker. Molecular weights are indicated on the left of the figure in kDa. Lane 2 = partially purified rabbit myosin. Lane 3 = pectoralis control muscle. Lane 4 = control ALD. Lane 5 = ALD stretched for 7 days. Lane 6 = ALD stretched for 14 days. Lane 7 = ALD stretched for 21 days. Lane 8 = ALD stretched for 30 days. Lane 9 = ALD after 30 days of stretch and 30 days of unweighting. HC = myosin heavy chains, LCs₁ = light chain slow 1, LCs₂ = light chain slow 2, LCf₁ = light chain fast 1, LCf₂ = light chain fast 2, LCf₃ = light chain fast 3. Bands occurring below LCf₃ are likely histones from the whole muscle preparations. Additional bands in this area have not been identified.

Separation of myosin light chains from control and stretched ALD muscles was obtained on 0.75 mm SDS gels run under conditions of constant voltage (250 v) for 8 h and with the buffers cooled to 10° C. Upper and lower chamber buffers were the same as for MHC gels. Gels were: acrylamide (T = 15%, C = 2.6%), 15.5% glycerol (v/v), 370 mM Tris (pH 8.8), 0.2% SDS (w/v), 0.01% APS (w/v) and 0.003% TEMED (v/v). Stacking gels were identical to that described for MHC gels.

**Fig. 5.**