



**Supplementary Figure 2: Representative 2-D DIGE gel images of Control (CTR), Mild and Severe FSHD.** Samples were separated on 24 cm, 3–10 nonlinear pH gradient IPG strips, with a voltage gradient ranging from 200 to 8000 V, for a total of 70 000 VhT. The second dimension was carried out in 20 x 25 cm<sup>2</sup>, 12% T, 2.5% C constant concentration polyacrylamide gels at 20°C and 15 mA per gel using the Ettan Dalt II system (GE Healthcare).