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FOXK1 and FOXK2 regulate aerobic glycolysis

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Supplementary note 1

We would like to point out that although frequently used as in vitro models for muscle metabolism it is well recognized that even though L6 and C2C12 cell lines use Glut4 as the principal glucose carrier, they are much less insulin-responsive than 3T3-L1 adipocytes, which also depend on Glut4 for insulin-stimulated glucose uptake^{56,57}. This explains why the glucose uptake in response to FOXK1 and FOXK2 are relatively smaller in C2C12 and L6 as compared with 3T3-L1 adipocytes. However, we found a significant increase in glucose uptake under non-insulin stimulated conditions in L6 (Fig. 1h) and C2C12 myocytes with induced expression of FOXK1 and FOXK2 (Extended Data Fig. 2e), there is also a tendency toward increased insulin-stimulated glucose uptake e.g. at day 5 (Extended Data Fig. 2e).

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- 57 Ueyama, A., Yaworsky, K. L., Wang, Q., Ebina, Y. & Klip, A. GLUT-4myc ectopic expression in L6 myoblasts generates a GLUT-4-specific pool conferring insulin sensitivity. *Am J Physiol* **277**, E572-578 (1999).