

Like Father Like Son

Long legs and wide hips also reduce the cost of locomotion in subadults



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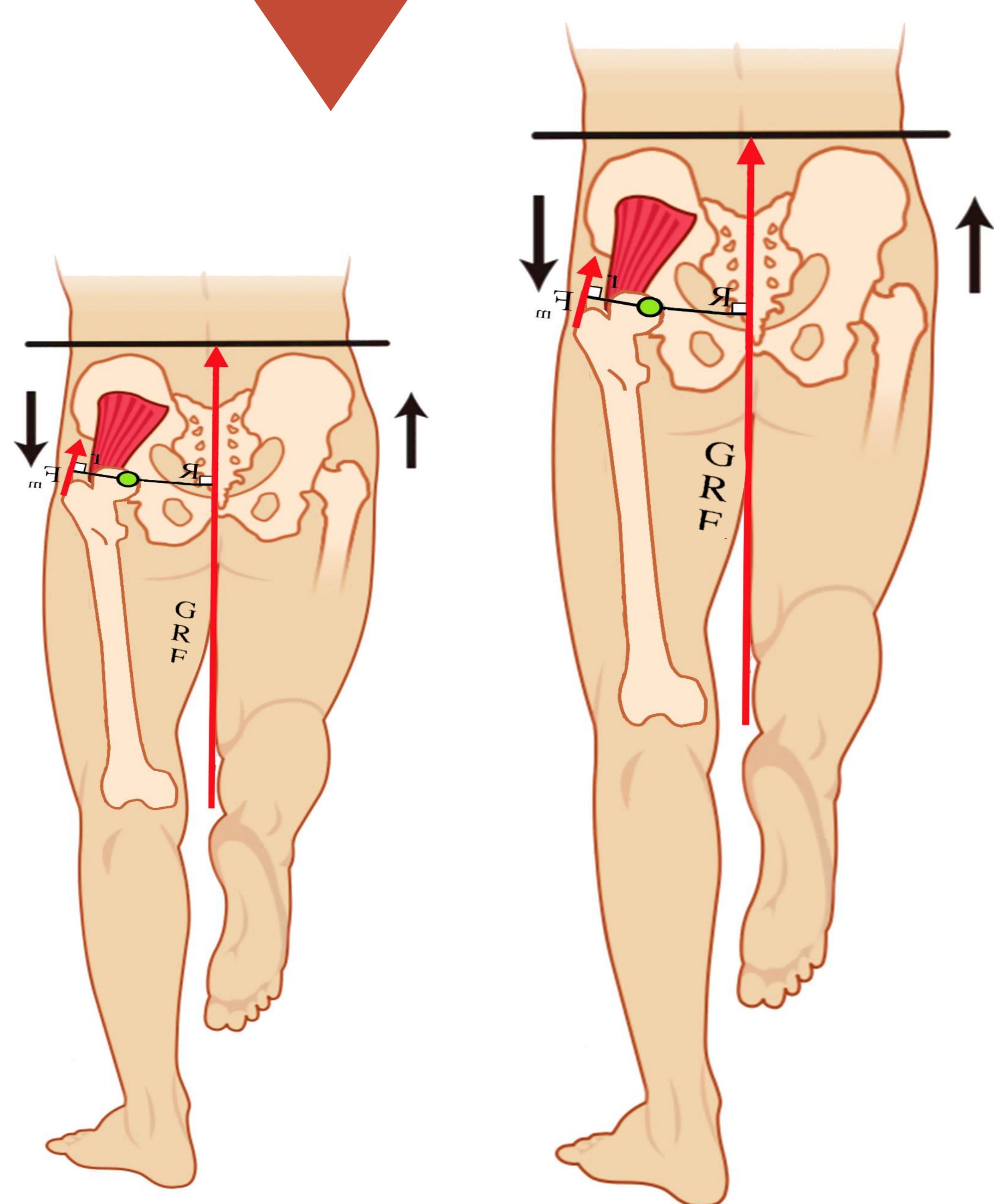
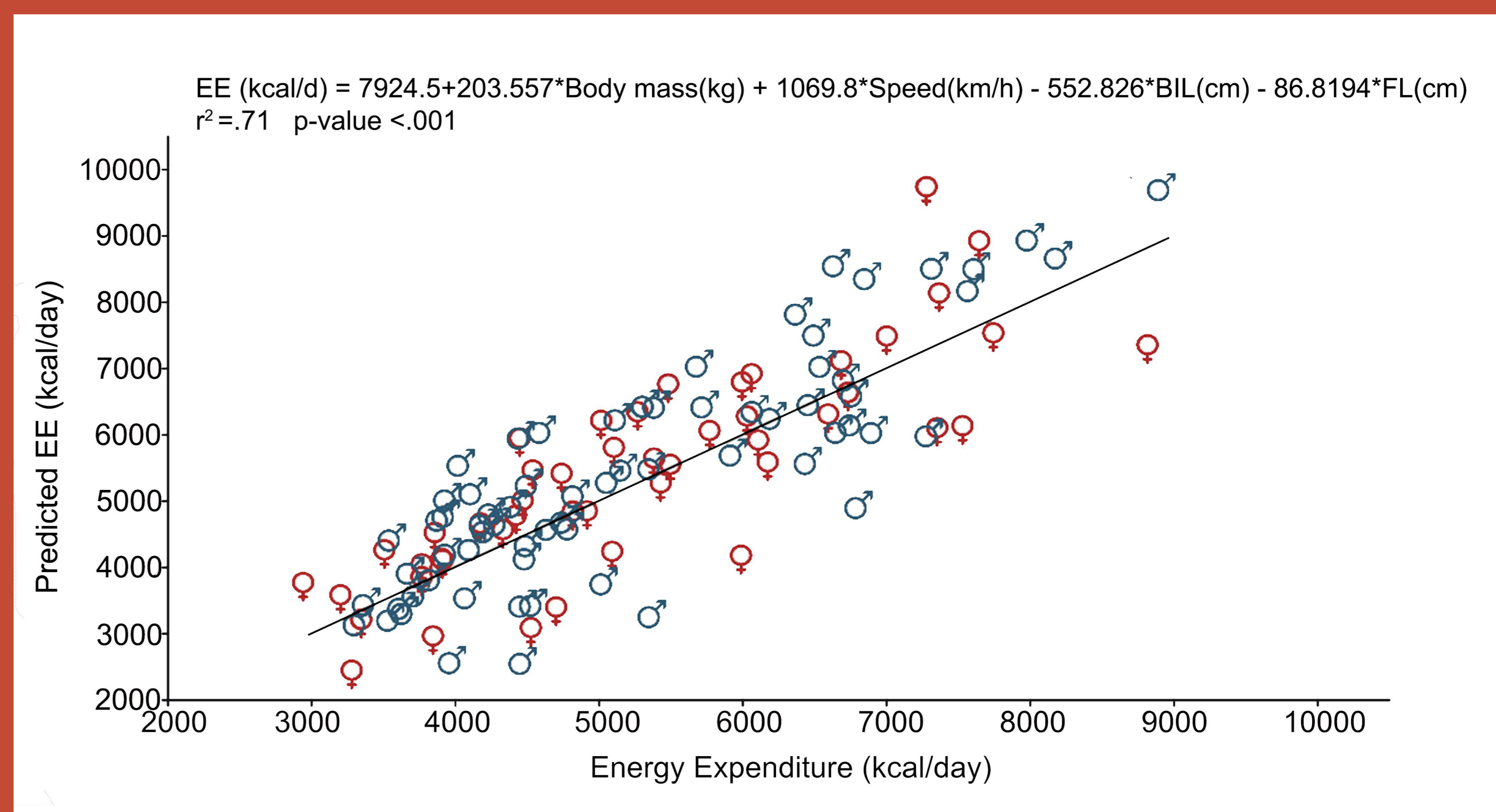
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Objective

Does subadult human anthropometry save energy during locomotion?

Results

Besides Speed and Body Mass, Femur Length and Bi-iliac breadth reduce the cost of walking.



Conclusions

Our results agree with prior studies in adults^{1,2,3}. Wide BIL adds stability and decreases cadence³. Increasing FL before puberal spurt⁴ would reduce the EE of several physical activities. Due to the higher predation pressure on juveniles, the locomotor phenotype of adults may be more a reflection of selection acting on the locomotor performance of the early life stages of many animal species⁵.

References

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