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Re: ‘Protective Effect of Focal Adhesion Kinase against Skeletal Muscle Reperfusion Injury after Acute Limb Ischemia’: Exciting Questions about Ischemia Reperfusion Injury

Flück et al. are to be congratulated on their recent study. Ischemia reperfusion (IR) models are very common in experimental studies and currently two different methods are the most frequently used. The first of these is to assess the local injury on the organ where IR is generated, as performed by Flück et al. and the second is to investigate the reperfusion injury in an organ distant from where the IR injury is generated. Based on this information, we would like to ask Flück et al. some provocative questions: (1) Which affects the lung tissue more, IR injury following a locally generated ischemia or the systemic effects of IR injury generated in the lower limbs? (2) Which distant organ is most affected by IR injury following locally generated ischemia of the lower limbs? (3) What is responsible for how much of a tissue will be affected by IR injury? Is it the mass volume of the tissue, is it the vascularity, or is it the possession of vital functions like hormonal activity?

We believe that the thoughts of Flück et al. on these questions will shed light on the issues raised.

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