

The structural and functional coordination of glycolytic enzymes in muscle: evidence of a metabolon?  
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Abstract:

Glycolysis occurs throughout life and is imperative to the proper function of muscle in Animalia. Metabolism, and its efficient organization, plays a major role in the success of all organisms. The coupling of metabolic function to structural organization has contributed to the kinetic optimization important to tissue-specific and whole-body function. The structure and function of dissipative glycolytic enzyme complexes have long been regarded as a major regulatory element necessary for muscle activity and whole-body homeostasis. Here, both original and more modern investigations are taken into consideration to present the current state of the research. Taken together, many of these studies are suggestive of the structure, mechanism, and importance of such a complex in muscle but the nature of this complex remains to be elucidated through in vivo studies.