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Miguel A Ballicora
Associate Professor and Assistant Chair

Starch & Enzyme Evolution
Our research focuses on the enzymes of the synthesis of glycogen in bacteria, and starch in plants, with a particular interest in their molecular evolution. These metabolic pathways are excellent candidates to study evolution of molecular function. They are related and developed early in evolution. In addition, they are regulated and composed by few enzymes. We intend to find how regulation appeared and evolved in this pathway, how catalysis was modified, and how specificity for substrates originated. We use mo... read more

Featured Works (1)

Article
Allosteric Control of Substrate Specificity of the Escherichia coli ADP-Glucose ... Frontiers in chemistry (2017)

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QUESTIONS?

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