Special Issue

Recent Advances in Carbohydrate-Active Enzymes

Message from the Guest Editor

The area of carbohydrate-active enzymes belongs to one of the most enormously developing research fields that, in the last decades, has attracted continuously increasing attention from the scientific community. Since the beginning of the 1990s, the field has been tightly connected with the sequence-based classification of glycoside hydrolases (GHs) into GH families, established by Bernard Henrissat in 1991, and later involving other enzyme activities that, in addition to catalyzing the hydrolysis of glycoside linkages, can also catalyze the formation and/or modification of a variety of carbohydrates. Therefore, the carbohydrate-active enzymes are currently best recognized as being classified in the CAZy database (http://www.cazy.org/) covering, in addition to GH families, the families of glycosyltransferases (GTs), polysaccharide lyases (PLs), carbohydrate esterases (CEs), and auxiliary activities (AAs); also covered is the segment devoted to their non-catalytic domains of the so-called carbohydrate-binding module (CBM) families.

Guest Editor

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