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IMAGING CELL WALLS OF A MODEL GRASS *BRACHYPODIUM DISTACHYON*

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False brome, *Brachypodium distachyon*, has become a model system for grasses and cereals that are economically important. Plant cell walls are currently growing research area in plant biology due to increasing interest in using plant biomass as feedstock for the production of biofuels and grasses are considered as a highly attractive feedstock. Cell walls are composed of polymers with complex and dynamic structures that can vary in cell types and different plant species, which makes better understanding of plant cell wall structure and function important. In order to address this, it is important to have powerful tools that can help imaging diverse glycans at the cellular level. Antibodies that recognize specific cell wall components are currently one of the most effective ways to determine the location and distribution of glycans in plant cell walls. The use of these cell Wall-direceted antibodies and immunolocalization of cell wall glycans in *Brachypodium distachyon* will be highlighted.

Biography

Utku AVCI is an assistant professor in the Bioengineering Department at Recep Tayyip Erdogan University in TURKEY. He obtained his PhD degree at the North Carolina State University in the USA. Then, he continued his academic research at the University of Georgia in the USA. For the last two years, he has been continuing his research in his country. His research is mainly on plant cell walls and lignocellulosic biofuel production.

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