## GLYCOPROTEINS IN THE GELATINOUS MATRIX OF ROTYLENCHULUS RENIFORMIS Paula Agudelo, Robert T. Robbins, James Stewart, and Brad Murphy University of Arkansas Fayetteville, AR

The purpose of this study was to test for the presence of glycoproteins in the gelatinous matrix of reniform nematode *Rotylenchulus reniformis*. The proteinaceous components of freshly formed gelatinous matrix were analyzed using peroxidase-labeled plant lectins from soybean (*Glycine max*), wheat (*Triticum vulgaris*), asparagus pea (*Tetragonolobus purpureus*), castor seed (*Ricinus communis*), common gorse (*Ulex europeaus*), and winged bean (*Psophocarpus tetragonolobus*). Wheat germ agglutinin, which recognizes N-acetylglucosamine moieties, labeled two protein fractions between 60 and 80 kDa. N-acetylglucosamine moieties have also been detected in the gelatinous matrix of root-knot nematode, in other studies. Glycosylation of nematode proteins has been implicated in host-parasite relationships and in protection against microorganisms, so the confirmation of the presence of glycoproteins may be an important step towards the elucidation of the biological function of the gelatinous matrix in reniform nematode.