# **Biology and Management of Soybean Cyst Nematode.** (A09-faghihi143502-Oral)

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### **Abstract:**

Soybean Cyst Nematode (SCN) is the most devastating pest of soybeans. Some estimates place annual losses to SCN in the U.S. at 1.4 Billion dollars. The common above-ground symptoms of patches of stunted, yellowed beans are well known. However, many field infestations are undetected because of a lack of obvious above-ground symptoms. Resistant varieties and crop rotation have been the main tools for SCN management. Almost all available resistant varieties have PI 88788 in their background and new sources of resistance are desperately needed. Even though complete resistance is present in the cultivar Hartwig, breeders have been unable to incorporate the resistance into new useful high yielding cultivars. Research at Purdue University resulted in the discovery and subsequent release of PUSCN14 (CystX) resistant germ plasm. This technology offers complete and broad-based resistance that is currently being incorporated by breeders into lines with desirable agronomic traits. CystX) technology is an achievement that will help growers combat the most destructive pest of soybeans.

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