

## RESEARCH BRIEF FOR AFFILIATES

<b>Name</b>	Brian Diers		
<b>Department/Group</b>	Crop Sciences		
<b>Title(s)</b>	Professor		
<b>Degrees</b>	<b>Degree, discipline</b>	<b>Year</b>	<b>School</b>
	Ph.D. Plant Breeding and Cytogenetics	1991	Iowa State University
	M.S. Plant Breeding and Cytogenetics	1988	Iowa State University
	B.S. Agronomy	1984	University of Minnesota
<b>Emphasis</b>	<b>Food Systems</b>		<b>Food Security</b>
	<input checked="" type="checkbox"/> Production <input type="checkbox"/> Post Farm <input type="checkbox"/> Consumer <input type="checkbox"/> Sustainability <input type="checkbox"/> Social/Economic <input type="checkbox"/> Legal/Policy		<input checked="" type="checkbox"/> Availability of food <input type="checkbox"/> Access to food <input type="checkbox"/> Utilization of Food <input type="checkbox"/> Nutrition <input checked="" type="checkbox"/> Stability of availability/access/utilization
<p>Dr. Dier's research program focuses on soybeans including increasing yield, resistance to aphids and cyst nematodes, and developing different soybean varieties. His group is identifying useful diversity in the USDA soybean germplasm collection. He is a Principal Investigator for the ACES-led Soybean Innovation Lab, funded by USAID.</p>			
<b>Countries or regions of collaborations</b>			
Africa			
<b>Publication highlights</b>			
<p>Cook, D.E., T.G. Lee, X. Guo, S. Melito, K. Wang, A. Bayless, J. Wang, T.J. Hughes, D.K. Willis, T. Clemente, B.W. Diers J. Jiang, M.E. Hudson, A.F. Bent. 2012. Cop number variation of multiple genes at Rhg1 mediates nematode resistance in soybean. <i>Science</i>. 338:1206-1209.</p> <p>Kim, K.S., B.W. Diers, D.L. Hyten, M.A. Rouf Mian, J.G. Shannon, and R.L. Nelson. 2012. Identification of positive yield QTL alleles from exotic soybean germplasm in two backcross populations. <i>Theor. Appl. Genet.</i> 125:1353-1369.</p> <p>Kim, K.S., J.R. Unfried, D.L. Hyten, R.D. Frederick, G.L. Hartman, R.L. Nelson, Q. Song, and B.W. Diers. 2012. Molecular mapping of soybean rust resistance in soybean accession PI 561356 and SNP haplotype analysis of the Rpp1 region in diverse germplasm. <i>Theor. Appl. Genet.</i> 125:1339-1352.</p> <p>Hesler, L.S, K.E. Dashiell, D.A. Prischmann, B.W. Diers, and R.A. Scott. 2012. Evaluation of putatively resistant soybean selections against the soybean aphid. <i>J. Crop Improvement</i>. 26:76-86.</p> <p>Tinsley, N.A., K.L. Steffey, R.E. Estes, J.R. Heeren, M.E. Gray, and B.W. Diers. 2012. Field-level effects of preventative management tactics on soybean aphids (<i>Aphis glycines</i> Matsumura) and their predators. <i>J. Appl. Entomol.</i> 136:361-371.</p>			