

WINTHROP B. PHIPPEN, PhD.

Professor of Plant Breeding and Genetics
School of Agriculture
Western Illinois University
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Education:

Ph.D. Horticulture, August 1999, Purdue University, West Lafayette, IN 47907
Dissertation: Anthocyanin Instability in Basil (*Ocimum basilicum* L.)

M.S. Plant Breeding, Plant Genetics, August 1994, Cornell University, Ithaca, NY 14850
Thesis: Genetic Identity and Relatedness Testing Utilizing DNA Amplification Techniques

B.S. Biology, June 1991, Hobart College, Geneva, NY 14456
Honors Thesis: *Brassica* Genetics and Systematics: Insights for Plant Genetic Resource Conservation

Experience:

Professor, School of Agriculture Western Illinois University, Macomb, Illinois	2010-Present
Associate Professor, Tenured (Department of Agriculture) Western Illinois University, Macomb, Illinois	2004-2010
Assistant Professor (Department of Agriculture) Western Illinois University, Macomb, Illinois	2000-2004
Post Doctorate Research Associate (New Crops Program) Purdue University, West Lafayette, Indiana	1999-2000
Instructor International Training Programs, Purdue University	1996-2000

Grants served as author and project director (last 5 years):

Illinois Council for Food Agricultural Research

2008 - \$15,000 – “New and Alternative Crops for a Bio-based Economy”
2007 - \$10,000 – “Alternative Crops Research”
2006 - \$72,000 – “Alternative Crop Production”

USDA –Specific Cooperative Agreement

2007 - \$75,000 – “Cuphea Breeding and Seed Production for Product Development”

USAID-Mexico: Training, Internships, Exchanges, and Scholarships

2006 - \$298,661 – “Capacity Building in Southern Mexico”

AFRI-Plant Breeding and Education

2010 - \$500,000 - “Undergraduate Training and Research in Plant Breeding

Private Industry CRADA

2009 - \$25,840 – “Pennycress Breeding”

University Research Council Seed Grant

2007 - \$3,250 – “Evaluation of Cuphea Species for Insect Resistance”

Illinois Soybean Association

2010 - \$15,416 - “Impact of Double Cropping Soybeans II”

2009 - \$22,679 - “Impact of Double Cropping Soybeans”

2008 - \$9,650 – “Soybean cropping with winter oilseeds”

Professional Societies/Service:

Association for the Advancement of Industrial Crops, 2001-2010

Board of Directors 2002-2010, President 2007, Webmaster 2007-2010,

Oilseed Division Chair 2002-2005

Crop Science Society of America, 2001-2010

Session Chair, C-1 Plant Breeding and Genetics 2005

Crop Registration Subcommittee for Sunflower, Castor, Rapeseed & Safflower. 2007-10

USDA-Crop Germplasm Committee: New Crops – 2005-2010

Book Chapters:

Phippen, W. B. 2009. Cuphea. In: *Oil Crop Breeding*. Vollmann, J. (ed), Springer, New York.
Pg 517-533.

Publications:

Phippen, W. B. 2007. Production Variables Affecting Follicle and Biomass Development in Common Milkweed. In: *Issues in New Crops and New Uses*. Janick, J. (ed), ASHS press, p. 82-88.

Phippen, W.B., T. A. Isbell, and M.E. Phippen. 2006. Total seed oil and fatty acid methyl ester contents of Cuphea accessions. *Industrial Crops and Products* 24:52-59.

Forcella, F., G. Amundson, R. Guesch, S. Papiernik, V. Davis, and W. Phippen. 2005. Herbicides tolerated by Cuphea (*Cuphea viscosissima* x *lanceolata*). *Weed Technology* 19:861-865.

- Park, C.H., W.B. Phippen, J.E. Simon, S.B. Namkoong, and N.S. Seong. 2005. Enhancement of in vitro regeneration of several *Ocimum* species and varieties. *Korean Journal of Plant Research* 8(3) 275-280.
- Rozzi, N. L., W. Phippen, J. E. Simon, and R. K. Singh. 2002. Supercritical Fluid Extraction of Essential Oil Components from Lemon-Scented Botanicals. *Lebensmittel-Wissenschaft und-Technologie/FST*, 35:319-324.
- Phippen, W.B. and J.E. Simon. 2000. Anthocyanin inheritance and instability in purple basil (*Ocimum basilicum*L.). *Journal of Heredity*, 91:289-296.
- Phippen, W.B. and J.E. Simon. 2000. Shoot regeneration of young leaf explants from basil (*Ocimum basilicum* L.). *In Vitro Cellular and Developmental Biology Plant* 36:250-254.
- Simon, J.E., M.R. Morales, R.F. Vieira, W.B. Phippen, and Z. Hao. 1999. Basil: a source of raw aroma chemicals and a popular herb for culinary and ornamental market. In: *Perpectives on newcrops and new uses*. Janick, J. (ed), ASHS press, p. 499–505.
- Phippen, W.B. and J.E. Simon.1998.Anthocyanins in basil. *Journal of Agricultural and Food Chemistry*, 46(5): 1734-1738.
- Phippen, W.B., S. Kresovich, F.G. Candelas, and J.R. McFerson. 1997. Molecular characterization can quantify and partition variation among genebank holdings: a case study with phenotypically similar accessions of *Brassica oleracea* var. *capitata* L. (cabbage) 'Golden Acre'. *Theo. Appl. Genet.* 94:227-234.

Posters/ Other Presentations:

- Phippen, W.B. and M.E. Phippen. 2010. Evaluation of field pennycress (*Thlaspi arvense* L.) populations. *Advancement of Industrial Crops Annual Meeting, Fort Collins, CO. September 19-22, 2010. (oral)*
- Phippen, W.B., B. John, and M.E. Phippen. 2010. Planting date, herbicide, and soybean rotation studies with field pennycress (*Thlaspi arvense* L.). *Advancement of Industrial Crops Annual Meeting, Fort Collins, CO. September 19-22, 2010. (poster)*
- Phippen, W.B., J. Gallant, and M.E. Phippen. 2010. Evaluation of planting method and seeding rates with field pennycress (*Thlaspi arvense* L.) *Advancement of Industrial Crops Annual Meeting, Fort Collins, CO. September 19-22, 2010. (poster)*
- Kim, K-I., R. Gesch, B. Johnson, F. Iutzi, J. Boots, I. Larsen, M. Berti, L. Marek, S. Cermak, T. Isbell, and W. Phippen. 2008. Feasibility of Cuphea as a New Oil Seed Crop to Climate and Soil Environments. *Advancement of Industrial Crops Annual Meeting, College Station, TX. September 7-11, 2008. (oral)*

- Roush, H. and W.B. Phippen. 2008. Milkweed Floss Biodiesel and No. 2 Heating Oil Absorbent Properties. Advancement of Industrial Crops Annual Meeting, College Station, TX. September 7-11, 2008. (poster)
- Iutzi, F and W. B. Phippen. 2007. Post-Emergent Herbicide Selection for Okra Oilseed Production. Crop Science Society of America Annual Meeting, New Orleans, LA. (poster)
- Phippen, W.B. 2006. Production Variables Affecting Follicle and Biomass Development in Common Milkweed. Advancement of Industrial Crops Annual Meeting, San Diego, CA. (oral)
- Iutzi, F. and W. B. Phippen. 2006. Alternative Crops Research. Crop Science Society of America Annual Meeting, Indianapolis, IN. (poster)
- Phippen, W.B. 2005. Okra Seed Production. Crop Science Society of America Annual Meeting, Salt Lake City, UT. Nov. 5-10, 2005. (oral)
- Phippen, W.B. and B. Kraus. 2004. Effect of long-term storage on cuphea seed germination . Advancement of Industrial Crops Annual Meeting, Minneapolis, MN. September 19-23, 2004. (poster)
- Phippen, W.B., T. A. Isbell, and M.E. Phippen. 2004. Total seed oil and fatty acid methyl ester content in wild Cuphea accessions. Advancement of Industrial Crops Annual Meeting, Minneapolis, MN. September 19-23, 2004. (poster)
- Phippen, W.B. 2004. Cuphea Breeding: Development of high lauric acid cuphea varieties. American Oil Chemist's Society annual meeting. Cincinnati, Ohio. (oral)
- Phippen, W. B. and S.E. Pegg. 2003. Production variables affecting pod and biomass development in common milkweed. Association for the Advancement of Industrial Crops annual meeting, Portland, Oregon. (oral)
- Davis, V.D. , S.E. Pegg, G. Roskamp, and W.B. Phippen. 2003. Cuphea injury rates with preemergence herbicides. Association for the Advancement of Industrial Crops annual meeting, Portland, Oregon. (poster)
- Phippen, W.B. 2003. Common Milkweed Production. American Oil Chemist's Society annual meeting. Kansas City, Missouri. (oral)
- Davis, V.D., G. Roskamp, and W.B. Phippen. 2002. Preemergence herbicide screening for Cuphea. Crop Science Meetings, Indianapolis, Indiana. (poster)
- Phippen, W.B. 2002. Common Milkweed Production. Illinois State Academy of Science, Edwardsville, Illinois. (oral)

- Phippen, W.B. 2002. Alternative Crop Breeding and Production. Sustainable Agriculture Conference, Springfield, Illinois. (oral)
- N.L. Rozzi, W. Phippen, J.E. Simon and R.K. Singh. 2001. Supercritical Fluid Extraction of Essential Oil Components from Lemon Scented Plants. Institute of Food Technologists annual meeting, New Orleans, Louisiana. (poster)
- Phippen, W.B. and J.E. Simon. 1999. Efficient regeneration protocol for basil (*Ocimum basilicum* L.). Annual ASHS Meeting, Minneapolis, Minnesota. (poster)
- Phippen, W.B. and J.E. Simon. 1997. Identification and characterization of basil anthocyanins. Annual ASHS Meeting, Salt Lake City, Utah. (poster)
- Zhigang, H., W.B. Phippen, and J.E. Simon. 1997. Quantitative analysis of kavalactones in Commercial kava (*Piper methysticum*). Annual Meeting of the American Society of Pharmacognosy, Iowa City, Iowa. (poster)
- Phippen, W.B., N. Ozer, A. Hetzroni, J.E. Simon, B. Bordelon, D.J. Charles, P. Angers, G.E. Miles, and D. Trinka. 1996. Electronic determination of blueberry fruit quality using aroma sensing technology. Annual ASHS Meeting, Lexington, Kentucky. (oral)
- Phippen, W.B. 1994. Molecular diagnostics in the cabbage patch. Plant Breeding Seminar, Cornell University, Ithaca, New York. (oral)
- Phippen, W.B., J.R. McFerson, and S. Kresovich. 1994. RAPD assay to improve *Brassica* genetic resources collection management, Crop Science Meetings, Seattle, Washington. (poster)
- Guo, Z.H., W.B. Phippen, M.R. Nolan, J.R. McFerson, and S. Kresovich. 1990. Update on optimization of starch gel electrophoretic techniques for use in genetic conservation of *Brassica oleracea* L. VI Crucifer Genetics Workshop, Ithaca, New York. (poster)
- Silva-Dias, J.C., J. Barnard, W.B. Phippen, J.R. McFerson, and S. Kresovich. 1990. Genetic diversity of landraces of Portuguese cabbages and kales, *Brassica oleracea* L. VI Crucifer Genetics Workshop, Ithaca, New York. (poster)

Reviewed Publications:

- Phippen, W. B. 2006. Okra evaluation trial for seed production. Midwestern Vegetable Variety Trial Reports for 2006. Purdue University Bulletin No. B18048.

- Morales M.R., W.B. Phippen, J.E. Simon, A. Thompson, M.K. Lang, and D. Nowaskie. 1999. Seeded watermelon cultivar trials for Southern Indiana. In: *Midwestern Vegetable Variety Trial Reports for 1999*. Purdue University Bul.-788, pp. 170-171.
- Morales M.R., W.B. Phippen, J.E. Simon, A. Thompson, M.K. Lang, and D. Nowaskie. 1999. Seedless watermelon cultivar trials for Southern Indiana. In: *Midwestern Vegetable Variety Trial Reports for 1999*. Purdue University Bul.-788, pp. 172-173.
- Morales M.R., W.B. Phippen, J.E. Simon, A. Thompson, M.K. Lang, and D. Nowaskie. 1999. Eastern muskmelon cultivar trials for Southwestern Indiana. In: *Midwestern Vegetable Variety Trial Reports for 1999*. Purdue University Bul.-788, pp. 43-45.
- Morales M.R., W.B. Phippen, and J.E. Simon. 1999. Lemon-scented plant species: a biomass and essential oil yield evaluation. In: *Horticultural Studies at Purdue University Research Centers and Farms*. Purdue University Bul.-791, pp. 28-29.
- Simon, J.E., W.B. Phippen, Morales M.R., J. Janick, R. Ballard, N. Apsley, and D. Biehle. 1999. A brief guide to botanicals in Southeastern Indiana. In: *Horticultural Studies at Purdue University Research Centers and Farms*. Purdue University Bul.-791, pp. 30-32.