

CURRICULUM VITAE

Peggy Goodenow Lemaux

Education

Miami University, Oxford, Ohio: B.A., cum laude (microbiology, chemistry) 1964-1968.
University of Michigan, Ann Arbor, Michigan: M.S. (microbiology, immunology)
1968-1969.
University of Michigan, Ann Arbor, Michigan: Ph.D. (microbiology) 1972-1977.
Cold Spring Harbor Laboratory, Cold Spring Harbor, New York: Molecular Biology of
Plants Course 1983.

Employment

Research Assistant: Infectious Diseases Unit, Upjohn Company, Kalamazoo, Michigan
1969-1972.
Staff Associate: Department of Plant Biology, Carnegie Institution of Washington,
Stanford, California. 1985-1987.
Research Scientist: Department of Plant Genetics, DeKalb/Pfizer Genetics, Groton,
Connecticut 1987-1988.
Senior Research Scientist: Department of Plant Genetics, DeKalb Plant Genetics, Groton,
Connecticut 1988-1991.
Associate Cooperative Extension Specialist: University of California, Berkeley,
California 1991-1996.
Associate Director, University of California Systemwide Biotechnology Research and
Education Program, University of California Office of the President 1994-1995.
Cooperative Extension Specialist: University of California, Berkeley, California 1996-
present.
Chair, University of California Division of Agriculture and Natural Resources
Biotechnology Workgroup, 1999-present

Teaching/Outreach/Campus/Professional Activities

Member, Legislative and Regulatory Subcommittee of UC Systemwide Biotechnology
Research and Education Program 1992-1996.
Member, Advisory Committee, Berkeley Biotechnology Education, Inc. 1992-1995.
Member, Chancellor's Advisory Committee on Laboratory and Environmental Biosafety,
1992-1995.
Member, Biological Sciences Advisory Committee, National Aeronautics and Space
Administration, 1993-1997.
Member, Curriculum Development Committee, Berkeley Unified School District/Vista
Community College Two-Plus-Two Technical Curriculum for Biotechnology,
1993-1995.
Member, Program Planning Advisory Committee, Division of Agriculture and Natural
Resources, University of California, 1994-1997.
Member, Standing Committee, College of Natural Resource, 1994-1997.

Member, National Sustainable Agriculture Advisory Committee, United States Department of Agriculture, 1995-1996.

Member, Agricultural Subcommittee of UC Systemwide Biotechnology Research and Education Program 1995-2000.

Member, Division of Agriculture and Natural Resources Organizational Strategy Team, 1996-1997.

Member, Review Committee for the Crop Resources Germplasm Program, Division of Agriculture and Natural Resources, 1997.

Chair, member, Public Affairs Committee, American Society of Plant Biologists, 1997-2003

Chair, elected member, American Association for the Advancement of Science, Electorate Nominating Committee, 1999-2001

Member, American Society of Microbiology, Public and Scientific Affairs Board Committee on Food and Agriculture. 1999-present

Chair, UC Division of Agriculture and Natural Resources, Statewide Workgroup, Linking Research and Education in Agricultural and Environmental Biotechnology, 1999-present

Co-Chair, UC Division of Agriculture and Natural Resources, Statewide Workgroup, Nutritional Genomics, 1999-2001

Member, California Food Biotechnology Advisory Committee, 2001-2003

Member, *Ad Hoc* Peer Review Committee, Division of Agriculture and Natural Resources, 2002.

Member, American Society of Plant Biologists Education Foundation, 2006-2009.

President, elected, American Society of Plant Biologists, 2011-2014.

Lead Instructor, PMB290: Science Communication, Fall 2015.

Member, appointed, C-4 Representative on Crop Science Society of America Rapid Response Team Committee (C536.1) (3 yr appt starts 1/2016).

Faculty Lead, The Millet Project, funded by Berkeley Food Institute, 2014-present.

Faculty Lead, Communication, Literacy, Education for Agricultural Research (CLEAR), funded by Global Food Initiative, 2015-present.

Outreach Publications

Odegard, W., Townsend, M. S., **Lemaux, P. G.**, Disbrow, D., Chang, G. 1994. "Biotechnology and Food", 4-H What's In Food Family Food Safety Education Program.

Huttner, S., Miller, H.I., **Lemaux, P.G.** 1995. "U.S. Agricultural Biotechnology: Status and Prospects", *Technology Forecasting and Social Change*, 50:25-39.

Lemaux, P.G., M.J. Cho, J. Louwarse, R. Williams, Y. Wan 1996. "Bombardment-mediated Transformation Technologies for Barley", *Bio-Rad Laboratories Technical Bulletin, Bulletin #2007*.

Kaffka, S., **Lemaux, P.G.** 1996. "Sugar Beet Research Notes: Beet Yellow Virus Resistance in Sugar Beet-Classical and Molecular Approaches" and "Sugar Beet Biotechnology: A Prudent Approach for the California Industry", Cooperative

- Extension Bulletin*, UC Division of Agriculture and Natural Resources publication #21544.
- Kaffka, S., **Lemaux, P.G.** 1996. "Sweeter Times Ahead for Sugarbeet Growers" *Nature Biotechnology* 14:1088.
- Lemaux, P.G.** 1996. "Biotechnology in Cotton - Current Status". *California Cotton Review* 41:1-2.
- Sellers, C., **Lemaux, P.G.** 1996. "Development and Use of Herbicide Resistant Crops for California" *Proceedings of the 48th annual California Weed Science Society*, Sacramento CA. pp. 212-223.
- Vickers, K.M., **Lemaux, P.G.** 1996. "Impact of Biotechnology and the Environment: Challenges and Opportunities". *Proceedings from the American Society for Horticultural Science 93rd Annual Conference*. *HortScience* 31:698-699. 1996.
- Koshinsky, H., **Lemaux, P.G.** 1996. Biotechnology in Alfalfa, *27th National Alfalfa Symposium Proceedings, December 9-10, 1996, San Diego, CA*, pp. 53-62.
- Lemaux, P.G.** 1997. "Intellectual Property Rights: The Trump Card for Biotechnology", *Proceedings of 31st National Barley Improvement Conference*, January 8, 1997 Minneapolis MN, pp. 62-64.
- Lemaux, P.G.** 1997. "Taking Biotechnology to the Community", *National Biological Impact Assessment Program Newsletter*, February 1997, pp 1-2.
- Lemaux, P.G.** 1997. "A Tomato Is a Tomato, or Is It?" *College of Natural Resources Issues and Breakthroughs*, 3:14.
- Lemaux, P.G.** 1997. "Transformation of Recalcitrant Crops: Progress and Remaining Challenges", *Proceedings of American Society of Sugarbeet Technologists*, March 1997.
- Lemaux, P.G.** 1999. "Impact of Public Perception on Regulatory Policy for Agricultural Biotechnology", *Plant Biotechnology*, 16:73-78.
- Lemaux, P.G.**, Qualset, C.A. 1999. Wheat of the Past and Wheats of the Future. *Aaronsohn Lectures on Wild Emmer Wheat*, Tel Aviv University Institute for Cereal Crops Improvement, April 14-15, 1999, Zikhron Ya'akov, Israel. pp. 125-139.
- Lemaux, P.G.** 1999. "Safe in the Ivory Tower?" *ASPP News*, November/December, Volume 26, No. 6, p. 12.
- Lemaux, P.G.**, Sellers, C. and Vargas, R. 2000 "Biotechnology and Weeds", in *Issues in Crop Science*, publ. California Weed Science Society.
- Cho, M.-J., **Lemaux, P.G.** 2000. Issues with new GM foods: biotechnology and agriculture. *Biotechnology and Seed War in the 21st Century*, Seoul, Korea, pp. 65-75.
- Lemaux, P.G.** 2002. Ignorance about bio-tech hurts world's hungry. *Duluth News-Tribune*, August 1, 2002.
<http://www.duluthsuperior.com/mld/duluthsuperior/3777424.htm>
- Dolan, E.L., Soots, B.E., **Lemaux, P.G.**, Rhee, S.Y., Reiser, L. 2004. Strategies for avoiding reinventing the precollege education and outreach wheel *Genetics* 166:1601-1609.

- Lemaux, P.G.** 2004. "A Rose by Any Other Name Is Still a Rose", 2004. *California Ornamental Research Foundation News*, December 2004, pp.
- Lemaux, P.G.** 2004. "Biotechnology Basics: Some of the Science And Some of the Issues", *Cotton Newsletter*, December 2004, pp. 1-4.
- Lemaux, P.G.** 2004. "Biotechnology 101: All You Need To Know in a Few Minutes", 2004. *Proceedings 2004 National Alfalfa Symposium*, San Diego CA Dec. 13-15, 2004, pp. 345-350.
- Lemaux, P.G.** 2005. "The Look of Corn: Yesterday, Today and Tomorrow", 2005. UC MEXUS Seminar Series Handouts, February 23, 2005, pp. 9-12.
- Lemaux, P.G.** 2006. "Introduction to Genetic Modification", Agriculture in Biotechnology in California, publication #8178.
- Lemaux, P.G.** 2006. "Some Food and Environmental Safety Issues with GE Products: A Scientific Perspective", Agriculture in Biotechnology in California, publication #8187.
- Lemaux, P.G.** 2006. "Is a Grape by Any Other Name Still a Grape?", UCCE Fresno County *VineLines* December 2006, pp. 1,3,6
- Lemaux, P.G.** 2006. "Ag Biotech Pipeline. What's in the Lineup?", Agricultural Biotechnology: Economic Growth through New Products, Partnerships and Workforce Development, eds. A. Eaglesham, R. Hardy, National Agricultural Biotechnology Council, Ithaca NY. *NABC Report 18* pp 31-43.
- Lemaux P.G;** Cartwright R. 2007. Think You Know About Liberty Link Rice? Try Explaining It in Simple Terms" *RiceCAP Newsletter* 3(6): 7.
- Lemaux P.G.** 2007. "From the Farm to the Laboratory: A Winding Road to Plant Biology", *American Society of Plant Biologists Newsletter*, 34(3) June/July.
- Lemaux P.G.** 2007. "CAP PIs Meet to Coordinate Efforts", *Barley CAP Newsletter* 2:1.
- Lemaux P.G.** 2007. "Lead PIs and Education and Extension PIs Meet to Coordinate Efforts", *Institute of Barley and Malt Sciences Newsletter*, 3: 3-4 June.
- Lemaux P.G.** 2007. "LL601 Rice. What Is It and What Does It Mean?", Fact Sheet written for RiceCAP, linked online at ucbiotech.org, June 2007.
- Lemaux P.G.** 2007. "Do We Need Genetically Modified Foods to Feed the World? A Scientific Perspective". In: *Realities of Nutrition*, 3rd Edition. Morrill JS and Deutsch RM. Orange Grove Publishing, Menlo Park CA, pp. 268-270.
- Lemaux P.G.** 2008. "Genetically Engineered Plants and Foods: A Scientist's Analysis of the Issues. Part I." *Annual Review of Plant Biology* 59:771-812.
- Lemaux P.G.** 2009. "Biotechnology 101: (some of) What You Need to Know in a Few Minutes.". *Proceedings California Plant and Soil Conference* (American Society of Agronomy) Fresno CA February 3-4, 2009, pp. 25-29,
- Lemaux P.G.** 2009. "Genetically Engineered Plants and Foods: A Scientist's Analysis of the Issues. Part II." *Annual Review of Plant Biology*, 60: 511-559.
- Lemaux P.G.** 2010. "What's Slowing Commercialisation of GE Crops? Regulatory, Economic, Intellectual Property and Consumer Acceptance Issues". In '1st Australian Summer Grains Conference'. Gold Coast, Australia. (Eds B George-Jaeggli, DJ Jordan). (Grains Research and Development Corporation) <<http://www.vision6.com.au/ch/33537/17ctt/1571498/2ed99jd5m.html>>.

- Lemaux P.G.**, Alonso B., Hertsgaard K. 2010. “Barley CAP Extension Efforts Go Online!”, *BarleyCAP Newsletter* March 2010, p. 3.
- Lemaux P.G.** 2011. “New Plant Varieties: How Can You Protect Your Investment?”. *Issues* 96; 37-40.
- Lemaux P.G.**, Alonso B. 2011. “It’s DNA for Dinner Time!”, *ASPB News*. January/February 38(1): 29-30.
- Lemaux P.G.** 2011. “UC biotechnology website helps the public understand GMOs”. UC Delivers, UCANR
<http://ucanr.org/delivers/impactview.cfm?impactnum=296> .
- Lemaux P.G.** 2011. “Barley CAP Publishes Fact Sheet on Ug99 Stem Rust”. *Institute of Barley and Malt Sciences Newsletter* 14:6.
- Lemaux P.G.**, Alonso B. 2011. “It’s (DNA for) Dinner Time”. *California Classroom Science* 22 (9): 1 May 2011
(<http://www.classroomscience.org/it%E2%80%99s-%E2%80%99Cdna-for-dinner%E2%80%9D-time>)
- Lemaux P.G.**, Alonso B. 2011. “DNA for Dinner Curriculum” *Plant and Soil Sciences eLibrary* (posted May 2011)
<http://passel.unl.edu/pages/informationmodule.php?idinformationmodule=1130447125>
- Lemaux, P.G.** 2012. Genetically Engineered Crops Can Be Part of a Sustainable Food Supply: Food and Food Safety Issues. In: *The Role of Biotechnology in a Sustainable Food Supply* (Popp, J., M. Jahn, M. Matlock and N. Kemper, eds.), Cambridge, Chapter. 7, pp. 122-140.
- Lemaux P.G.** 2012. “The Year Ahead Filled with Challenges and Opportunities” *ASPB News* 39 (6): 1-3.
- Lemaux P.G.** 2013. “The What & How of Classic and Modern Methods of Plant Modification”. *The Soy Connection* 21: 4.
<http://www.soyconnection.com/newsletters/soy-connection/health-nutrition/summer-2013/plant-modification-old-and-new-what-it-is-how-its-done>
- Lemaux P.G.** 2013. “Plant Biology Researchers Face Their Own Fiscal Cliffs” *ASPB News* 40 (1): 1-3,8.
- Lemaux P.G.** 2013. “GMO Labeling? Open Borders? Nuclear Energy Proliferation? Raising Taxes?” *ASPB News* 40 (2):1-3.
- Lemaux P.G.** 2013. “Egg-citing! ASPB’s STEPs at the White House” *ASPB News* 40 (3):1-4.
- Lemaux P.G.** 2013. “Is It Time to Think Outside the Box About Funding for Agricultural R&D?” *ASPB News* 40 (4): 1, 3-4.
- Lemaux P.G.** 2013. “To Die For?” *ASPB News* 40 (5): 1-4.

Professional Societies

American Association for the Advancement of Science
 American Society of Agronomy
 American Society of Microbiology

American Society of Plant Physiologists
California Women for Agriculture
Council for Agricultural Science and Technology
Crop Science Society of America
International Society of Plant Molecular Biologists
National Science Teachers Association
Society of In Vitro Biology
Soil Science Society of America

Honors

Honored Women of the University of California, Berkeley. April 29, 1995.
Distinguished Service Award, Outstanding Research, from the Cooperative Extension Academic Assembly Council, Division of Agriculture and Natural Resources, Outstanding Research, DANR, August 1997.
Fellow, American Association for the Advancement of Science, 2002.
Dennis R. Hoagland Award for Outstanding Contribution to Agriculture, American Society of Plant Biologists, 2003.
Distinguished Service Award, Outstanding Extension, University of California Cooperative Extension, 2006.
Fellow, Crop Science Society of America, 2007.
Fellow, American Society of Plant Biologists, 2009.
Career Achievement Award, Society of In Vitro Biology, June 2010.
President, American Society of Plant Biologists, 2011-. 2013.
Excellence in Education Award, American Society of Plant Biologists, July 2012.
Award of Excellence, Extension Education Community Education Materials, ASA-CSSA-SSA, November 2015

Issued Patents

Adams, T. R.; Adams, W. R., Jr.; Chambers, S. A., Daines, R.J. Gordon-Kamm, W.J., Kausch, A.J., Kreuger, R.W., **Lemaux, P.G.**, Mackey, C.J., Mangano, M.L., O'Brien, J.V., Rice, T.B., Spencer, T.M., Start, W.G., Willetts, N.G. Methods and compositions for the production of stably transformed, fertile monocot plants and cells thereof. Patent Number: US 5550318. August 27, 1996. *DeKalb Genetics Corporation*.

Adams, T. R.; Chambers, S. A., Daines, R.J. Gordon-Kamm, W.J., Kausch, A.J., **Lemaux, P.G.**, Mackey, C.J., Mangano, M.L., O'Brien, J.V., Rice, T.B., Spencer, T.M., Start, W.G., Willetts, N.G. Process of producing fertile transgenic *Zea mays* plants and progeny comprising a gene encoding phosphinothricin acetyl transferase. Patent Number: US 5489520. February 6, 1996. *DeKalb Genetics Corporation*.

Adams, T. R.; Chambers, S. A., Daines, R.J. Gordon-Kamm, W.J., Kausch, A.J., **Lemaux, P.G.**, Mackey, C.J., Mangano, M.L., O'Brien, J.V., Rice, T.B., Spencer, T.M., Start, W.G., Willetts, N.G. Methods and compositions for the production of

- stably transformed fertile monocot plants and cells thereof. Patent Number: US 5874265. February 23, 1999. *DeKalb Genetics Corporation*.
- Adams, T. R.; Chambers, S. A., Daines, R.J. Gordon-Kamm, W.J., Kausch, A.J., **Lemaux, P.G.**, Mackey, C.J., Mangano, M.L., O'Brien, J.V., Rice, T.B., Spencer, T.M., Start, W.G., Willetts, N.G. Methods and compositions for the production of stably transformed, fertile monocot plants and cells thereof. Patent Number: US 5919675. July 6, 1999. *DeKalb Genetics Corporation*.
- Adams, T. R.; Chambers, S. A., Daines, R.J. Gordon-Kamm, W.J., Kausch, A.J., **Lemaux, P.G.**, Mackey, C.J., Mangano, M.L., O'Brien, J.V., Rice, T.B., Spencer, T.M., Start, W.G., Willetts, N.G. Methods and compositions for the production of stably transformed fertile monocot plants and cells thereof. Patent Number: US 5969213. October 19, 1999. *DeKalb Genetics Corporation*.
- Lemaux, P.G.**; Cho, M.-J. Compositions and methods for plant transformation and regeneration. *Official Gazette of the United States Patent and Trademark Office Patents*. May 22, 2001. 1246(4): No Pagination. US 6235529; May 22, 2001, 435-4301, USA. The Regents of the University of California.
- Colby, S. M., Crock, J. E., **Lemaux, P. G.**, Croteau, R.B. Germacrene C synthase gene of *Lycopersicon esculentum*. *Official Gazette of the United States Patent and Trademark Office Patents*. Jan. 29, 2002. 1254(5): No Pagination. US 6342380; January 29, 2002, 435-183, USA The Regents of the University of California, Berkley, CA, USA; Washington State Research Foundation, Pullman, WA, USA.
- Cho, M.-J., del Val, G., Caillau, M., **Lemaux, P.G.**, Buchanan, B.B. Barley gene for Thioredoxin and NADP-thioredoxin reductase. *Official Gazette of the United States Patent and Trademark Office Patents*. Apr. 30, 2002. 1257(5): No Pagination. US 6380372; April 30, 2002, 536-231, USA. The Regents of the University of California.
- Zhang, S., Cho, M.-J., Bregitzer, P., **Lemaux, P.G.** Methods and compositions for transformation of cereals using cultured shoot meristematic tissue. *Official Gazette of the United States Patent & Trademark Office Patents*. 1264(4). Nov. 26, 2002, USA. The Regents of the University of California.
- Lemaux, P.G.**, Cho, M.-J. Method for preparing barley green regenerative tissue *Official Gazette of the United States Patent & Trademark Office Patents*. 1269(1). Apr. 1, 2003, USA. The Regents of the University of California.
- Lemaux, P.G.**, Cho, M.-J., Buchanan, B.B. Production of proteins in plant seeds *Official Gazette of the United States Patent & Trademark Office Patents*. 1276(1). Nov. 4, 2003, USA. The Regents of the University of California.
- Cho, M.-J., **Lemaux, P.G.**, Buchanan, B.B., Wong, J., Marx, C. Value-added traits in grain and seed transformed with thioredoxin *Official Gazette of the United States Patent & Trademark Office Patents*. 1285(5). Aug. 31, 2004, USA. The Regents of the University of California.
- Cho, M.-J., del Val, G., Caillau, M., **Lemaux P.G.**, Buchanan, B.B. Barley gene for thioredoxin and NADP-thioredoxin reductase. *Official Gazette of the United States Patent and Trademark Office Patents*. Patent Number: US 06833493, December 21, 2004. The Regents of the University of California.

- Lemaux P.G.**, McElroy D., Koprek T. Transposon Tagging and Gene Delivery in Small Grain Cereals. *Official Gazette of the United States Patent and Trademark Office Patents*. Patent Number: US 06951972, October 4, 2005. The Regents of the University of California.
- Lemaux P.G.**, Cho, M.-J. Compositions and methods for plant transformation and regeneration. *Official Gazette of the United States Patent and Trademark Office Patents*. Patent Number: US 07102056, September 5, 2006. The Regents of the University of California.
- Cho, M.-J., **Lemaux P.G.**, Buchanan B.B. Production of proteins in plant seeds. *Official Gazette of the United States Patent and Trademark Office Patents*. Patent Number: US 07157629, January 2, 2007. The Regents of the University of California.
- Cho, M.-J., Wong, J., **Lemaux P.G.**, Buchanan B.B. Transgenic plants with elevated thioredoxin levels. *Official Gazette of the United States Patent and Trademark Office Patents*. Patent Number: US 07179964, Feb. 20, 2007. The Regents of the University of California.
- Zhang S., Carrier R., **Lemaux P.G.** Methods and compositions for transformation and regeneration of maize. *Official Gazette of the United States Patent and Trademark Office Patents*. Patent Number: 7,429,691. September 30, 2008. The Regents of the University of California.
- Adams TR, Anderson, PC, Chambers SA, Chomet PS, Daines RJ, Flick CE, Glassman K, Gordon-Kamm WJ, Kausch AP, Laccetti LB, **Lemaux PG**, Mackey CJ, Mangano ML, Mann MT, O'Brien JV, Orozco EM, Orr P, Rice TB, Spencer TM, Start WG, Stephens MA, Vetsch CS, Walters DA, Walters DS, Willetts NG, Zachwieja AJ. Methods and Compositions for the Production of Stably Transformed Fertile Monocot Plants and Cells Thereof. *Official Gazette of the United States Patent and Trademark Office Patents*. Patent Number: 7,705,215 B1. April 27, 2010. Dekalb Genetics Corporation, Dekalb IL USA
- Melis A, Wintz H-C, **Lemaux PG**, Owiti J. Monoterpene Production in Plants”, Provisional patent, submitted September 9, 2014.

Research Publications

- Argoudelis, A.C., Coats, J.H., **Lemaux, P.G.**, Sebek, O.K. 1972. Antibiotics Produced by Mutants of *Streptomyces caelestis*. *Journal of Antibiotics* 35:445-455.
- Pedersen, S., Blumenthal, R.M., Reeh, S., Parker, J., **Lemaux, P.G.**, Laursen, R.A., Nagarkatti, S., Friesen, J.D. 1976. A Mutant of *E. coli* with an Altered Elongation Factor Tu. *Proceedings of National Academy of Science USA* 73:1698-1701.
- Blumenthal, R.M., **Lemaux, P.G.**, Neidhardt, F.C., Dennis, P.P. 1976. The Effects of the *relA* Gene on the Synthesis of Aminoacyl-tRNA Synthetases and Other Transcription and Translation Proteins in *Escherichia coli* B. *Molecular and General Genetics* 149:291-296.
- Lemaux, P.G.**, Herendeen, S.L., Bloch, P.L., Neidhardt, F.C. 1978. Transient Rates of Synthesis of Individual Polypeptides in *E. coli* Following Temperature Shifts. *Cell* 13:427-434.

- Lemaux, P.G.**, Miller, D.L. 1978. A Study of a Mutant Elongation Factor, Properties of *E. coli* HAK88 and Mutant Elongation Factor Tu. *Molecular and General Genetics* 159:47-55.
- Chou, J., Casadaban, M.J., **Lemaux, P.G.**, Cohen, S.N. 1979. Identification and Characterization of a Self-Regulated Repressor of Translocation of the Tn3 Element. *Proceedings of National Academy of Science USA* 76:4020-4024.
- Chou, J., **Lemaux, P.G.**, Casadaban, M.J., Cohen, S.N. 1979. Transposition Protein of Tn3: Identification and Characterization of an Essential Repressor-controlled Gene Product. *Nature* 282:801-806.
- Cohen, S.N., Casadaban, M.J., Chou, J., **Lemaux, P.G.**, Miller, A., Tu, R.-P.D. 1980. Regulation of Tn3 Transposition and Specificity of its Insertion Sites. In: *Mobilization and Reassembly of Genetic Information* (Proceedings of the Twelfth Miami Winter Symposium, 7-11 January 1980, Miami, FL) Academic Press (New York), pp. 65-79.
- Casadaban, M.J., Chou, J., **Lemaux, P.G.**, Tu, C.-P.D., Cohen, S.N. 1981. Tn3: Transposition and Control. *Transposable Genetic Elements*, Cold Spring Harbor Laboratory Publications (Cold Spring Harbor), pp. 269-273.
- Das, J.K., Biro, P.A., Cohen, S.N., Erlich, H.A., Gabain, A., Lawrence, S., **Lemaux, P.G.**, McDevitt, H.O., Peterlin, B.M., Schulz, M.-F., Sood, A.K., Weissman, S.M. 1983. Use of Synthetic Oligonucleotide Probes Complementary to Human HLA-DR Alpha and Beta Genes as Extension Primers for the Isolation of 5'-specific Genomic Clones. *Proceedings of National Academy of Science USA* 80:1531-1535.
- Lemaux, P.G.**, Grossman, A.R. 1984. Isolation and Characterization of a Gene for Major Light-harvesting Polypeptides from *Cyanophora paradoxa*. *Proceedings of National Academy of Science USA* 81:4100-4104.
- Lemaux, P.G.**, Grossman, A.R. 1985. Major Light-harvesting Polypeptides Encoded in Polycistronic Transcripts in a Eukaryotic Alga. *EMBO Journal* 4:1911-1919.
- Conley, P.B., **Lemaux, P.G.**, Grossman, A.R. 1986. Cyanobacterial Light-harvesting Complex Subunits are Encoded in Two Red Light-induced Transcripts. *Science* 230:550-553.
- Conley, P.B., **Lemaux, P.G.**, Lomax, T.L., Grossman, A.R. 1986. Genes Encoding Major Light-harvesting Polypeptides are Clustered on the Cyanobacterial Genome of *Fremyella diplosiphon*. *Proceedings of National Academy Sciences USA* 83:3924-3928.
- Grossman, A.R., **Lemaux, P.G.**, Conley, P.B. 1986. Regulation of Phycobiliprotein Synthesis. *Photochemistry and Photobiology* 44:827-837.
- Conley, P.B., **Lemaux, P.G.**, Grossman, A.R. 1988. Molecular Characterization and Evolution of Sequences Encoding Light-harvesting Components in the Chromatically-adapting Cyanobacterium *Fremyella diplosiphon*. *Journal of Molecular Biology* 199:447-465.
- Grossman, A.R., **Lemaux, P.G.**, Conley, P.B., Bruns, B., Anderson, L.A. 1988. Characterization of Phycobiliprotein and Linker Polypeptide Genes in *Fremyella*

- diplosiphon* and Their Regulated Expression during Complementary Chromatic Adaptation. *Photosynthesis Research* 17:23-56.
- Grossman, A.R., Anderson, L.K., Conley, P.B., **Lemaux, P.G.** 1989. Molecular Analyses of Complementary Chromatic Adaptation and the Biosynthesis of a Phycobilisome. *Algae as Experimental Systems*, Alan R. Liss, Inc. (New York) pp. 269-289.
- Spencer, T.M., Gordon-Kamm, W.J., Daines, R.J., Star, W.G., **Lemaux, P.G.** 1990. Bialaphos Selection of Stable Transformants from Maize Cell Culture. *Theoretical and Applied Genetics* 79:625-631.
- Gordon-Kamm, W.J., Spencer, T.M., Mangano, M.L., Adams, T.R., Daines, R.J., Start, W.G., O'Brien, J.V., Chambers, S.A., Adams, W.R., Willetts, N.G., Rice, T.B., Mackey, C.J., Krueger, R.W., Kausch, A.P., **Lemaux, P.G.** 1990. Transformation of Maize Cells and Regeneration of Fertile Transgenic Plants. *Plant Cell* 2:603-618.
- Gordon-Kamm, W.J., Spencer, T.M., O'Brien, J.V., Start, W.G., Daines, R.J., Adams, T.R., Mangano, M.L., Chambers, S.A., Zachwieja, S.J., Willetts, N.G., Adams, W.R., Mackey, C.J., Krueger, R.W., Kausch, A.P., **Lemaux, P.G.** 1991. Transformation of Maize Using Microprojectile Bombardment: An Update and Perspective. *In Vitro Cellular and Developmental Biology* 27P: 21-27.
- Spencer, T.M., O'Brien, J.V., Start, W.G., Adams, T.R., Gordon-Kamm, W.J., **Lemaux, P.G.** 1992. Molecular and Phenotypic Analysis of Transgene Segregation in Maize. *Plant Molecular Biology* 18:201-210.
- Mackey, C.J., Spencer, T.M., Adams, T.R., Kausch, A.P., Gordon-Kamm, W.J., **Lemaux, P.G.**, Krueger, R.W. 1993. Transgenic Maize. *Transgenic Plants, Volume 2: Present Status and Social and Economic Impacts*, Academic Press (New York), pp. 21-33.
- Wan, Y., **Lemaux, P.G.** 1994. Generation of Large Numbers of Independently Transformed Fertile Barley Plants. *Plant Physiology*, 104: 37-48.
- Lemaux, P.G.**, McElroy, D. 1994. Development of a Transposon Tagging System for Barley. *Progress Reports of North American Barley Genome Mapping Project*, p. 34-37.
- Wan, Y., **Lemaux, P.G.** 1994. Transformed Plants Generated in Large Numbers. *Rice Biotechnology Quarterly*, 21: 23-24.
- Wan, Y., **Lemaux, P.G.** 1994. Biolistic Transformation of Barley using Microspore-derived and Immature Embryo-derived Somatic Embryos and Zygotic Embryos as Targets to Generate Fertile Transgenic Plants in *Gene Transfer to Plants* Springer-Verlag, pp. 130-139.
- Wan, Y., Widholm, J., **Lemaux, P.G.** 1995. Type I Callus as a Bombardment Target for Generating Fertile Transgenic Maize (*Zea mays* L.), *Planta*, 196: 7-14.
- McElroy, D., Louwerse, J., **Lemaux, P.G.** 1995. Transient Functionality Testing of Maize Transposons *Ac/Ds* in Barley, *Progress Reports of North American Barley Genome Mapping Project*, pp. 36-39.
- McElroy, D., Louwerse, J., **Lemaux P.G.** 1995. Development of a Transient Assay for *Ac/Ds* Activity in Barley, *Progress Reports of North American Barley Genome Mapping Project*, pp. 36-39.

- Louwerse, J., McElroy D., **Lemaux P.G.** 1996. Functionality of Maize Transposable Element in Barley, *Progress Reports of North American Barley Genome Mapping Project*, 1996, pp. 39-41.
- McElroy D., Louwerse, J.D., McElroy, S.M., **Lemaux, P.G.** 1997. Development of a Simple Transient Assay for Ac/Ds Activity in Cells of Intact Barley Tissue, *Plant Journal* 11: 157-165.
- Williams-Carrier, R., Y. Lie, S. Hake, **Lemaux P.G.** 1997. Ectopic KN1 Accumulation Phenocopies the *Hooded* Mutation in Barley, *Development*, 124: 3737-3745.
- Lemaux, P.G.**, Cho, M.-J., Koprek, T., Zhang, S., Peter, G. F. 1997. Information Learned from the Genetic Engineering of Recalcitrant Monocot Species: Applicability to Problems in Forest Biotechnology. In *TAPPI Biological Sciences Symposium Proceedings*, October 22, 1997, San Francisco, CA, pp. 289-293.
- Cho, M.-J, **Lemaux, P.G.** 1997. Rapid PCR Amplification of Chimeric Products and its Direct Application to *in vivo* Testing of Recombinant DNA Construction Strategies, *Molecular Biotechnology* 8: 13-16.
- McGrath, P.F., Vincent, J.R., Lei, C.-H, Pawlowski, W.P., Torbert, K.A., Gu, W., Kaepler, H.F., Wan, Y., **Lemaux, P.G.**, Rines, H.R., Somers, D.A., Larkins, B.A., Lister, R.M. 1997. Coat Protein-Mediated Resistance to Isolates of Barley Yellow Dwarf in Oats and Barley, *European Journal of Plant Pathology* 103: 695-710.
- Lemaux, P.G.**, Zhang, S., Zhang, S., Cho, M.-J., Jiang, W., Koprek, T., Williams-Carrier, R., McElroy, D., Louwerse, J. 1997. Progress and Continuing Challenges in the Genetic Engineering of Barley for Commercial Improvement. *Proceedings of 31st Barley Improvement Conference*, pp. 60-61.
- Zhang, S., Williams-Carrier, R., Jackson, D., **Lemaux, P.G.** 1998. CDC2Zm and KN1 Expression during Adventitious Shoot Meristem Formation from *In Vitro* - Proliferating Axillary Shoot Meristems in Maize and Barley. *Planta*, 204: 542-549.
- Bregitzer, P., Halbert, S., **Lemaux, P.G.** 1998. Somaclonal Variation in the Progeny of Transgenic Barley, *Theoretical and Applied Genetics*, 96: 421-425.
- Colby, S., Crock, J., Dowdle, B. **Lemaux, P.G.**, Crouteau, R. 1998. Germacrene C Synthase from *Lycopersicon esculentum* cv. VFNT Cherry Tomato: cDNA Isolation, Characterization and Bacterial Expression of the Multiple Product Sesquiterpene Cyclase, *Proceedings of National Academy of Science USA*. 95: 2216-2221.
- Jiang, W., Cho, M.-J., **Lemaux, P.G.** 1998. Improved Callus Quality and Prolonged Regenerability in a Model and Commercially Important Barley (*Hordeum vulgare* L.) Genotypes, *Plant Biotechnology*, 15: 63-69.
- Cho, M.-J., Jiang, W., **Lemaux, P.G.** 1998. Transformation of Recalcitrant Barley Cultivars through Improvement of Regenerability and Decreased Albinism. *Plant Science*, 138: 229-244.
- Lemaux, P.G.**, Cho, M.-J., Zhang, S., Bregitzer, P. 1998. Transgenic Cereals: *Hordeum vulgare* L. in Molecular Improvement of Cereal Crops, Kluwer Academic Press, Dordrecht, Netherlands, ed. I.K. Vasil, pp. 255-316.
- Zhang, S., Cho, M.-J., Koprek, T., Yun, R., Bregitzer, P., **Lemaux, P.G.** 1999. Genetic Transformation of Commercial Cultivars of Oat (*Avena sativa* L.) and Barley

- (*Hordeum vulgare* L.) Using *In Vitro* Shoot Meristematic Cultures Derived from Germinated Seedlings. *Plant Cell Reports* 18: 959-966.
- Cho, M.-J., Choi, H.W., Buchanan, B.B., **Lemaux, P.G.** 1999. Inheritance of Tissue-Specific Expression of *uidA* in Transgenic Barley Plants. *Theoretical and Applied Genetics* 98: 1253-1262.
- Koprek, T., McElroy, D., Louwarse, J., Carrier, R., **Lemaux, P.G.** 1999. Negative Selection Systems for Transgenic Barley (*Hordeum vulgare* L.): comparison of Bacterial *codA*- and Cytochrome P450 Gene-mediated Selection, *Plant Journal*, 19: 1-8.
- Cho, M.-J., Buchanan, B.B., **Lemaux, P.G.** 1999. Development of Transformation System for Monocotyledonous Crop Species and Production of Foreign Proteins in Transgenic Barley and Wheat Seeds. In: *Application of Transformation Technology in Plant Breeding*. Special Seminar for 30th Anniversary Korean Breeding Soc., Suwon, Korea, November 19, 1999, pp. 39-53.
- Cho, M.-J., Choi, H.W., **Lemaux, P.G.** 1999. Stable Inheritance of Seed-specific Expression of Transgenes and Increased Cytological Variation in Transgenic Plants. In: *Application of Transformation Technology in Plant Breeding*. Special Seminar for 30th Anniversary Korean Breeding Soc., Suwon, Korea, November 19, 1999, pp. 55-63.
- Zhang, S., Cho, M.-J., Bregitzer, P., **Lemaux, P.G.** 1999. Comparative Analysis of Genomic DNA Methylation Status and Field Performance of Plants Derived from Embryogenic Calli and Shoot Meristematic Cultures. In *Plant Biotechnology and In Vitro Biology in the 21st Century*. Altman, A., Ziv, M., Izhar, S. (eds.). Kluwer Academic Pub., pp. 263-267.
- Cho, M.-J., Wong, J.H., Marx, C., Jiang, W., **Lemaux, P.G.**, Buchanan, B. 1999. Overexpression of Thioredoxin *h* Leads to Enhanced Activity of Starch Debranching Enzyme (Pullulanase) in Barley Grain. *Proceedings of National Academy of Science USA* 96:14641-14646.
- Koprek, T., Cho, M.-J., Choi, H.W., Kim, H.K., Zhang, S., Bregitzer, P., **Lemaux, P.G.** 1999. Clearing the Hurdles of Small Grain Transformation: A Molecular and Cytological Approach. *Proceedings of Australian Cereal Chemistry and Australian Barley Technological Congress*, 2.3.1-2.3.8.
- Marx, C., **Lemaux, P.G.**, Buchanan, B.B. 1999. The Wheat Grain: New Research Developments and Approaches to Improvement. In: *Seed Technology*. Eds. M. Black and D. Bewley, Sheffield Academic Press, UK., pp. 161-181.
- Cho, M.-J., Jiang, W., **Lemaux, P.G.** 1999. High-frequency Transformation of Oat via Microprojectile Bombardment of Seed-derived Highly Regenerative Cultures. *Plant Science* 148: 9-17.
- Choi, H.W., **Lemaux, P.G.**, Cho, M.-J. 2000. Increased Chromosomal Variation in Transgenic Versus Nontransgenic Barley (*Hordeum vulgare* L.) Plants. *Crop Science* 40: 524-533.
- Koprek, T.K., McElroy, D., Louwarse, J., Williams-Carrier, R., **Lemaux, P.G.** 2000. An Efficient Method for Dispersing *Ds* Elements in the Barley Genome as a Tool for Determining Gene Function. *Plant Journal* 24:253-263.

- Ha, C.D., **Lemaux, P.G.**, Cho, M.-J. 2000. Stable Transformation of a Recalcitrant Kentucky Bluegrass (*Poa pratensis* L.) Cultivar Using Highly Regenerative Tissues. *In Vitro Cellular and Developmental Biology* 37: 6-11.
- Cho, M.-J., Choi, H.W., **Lemaux, P.G.** 2000. Transgenic Orchardgrass (*Dactylis glomerata* L.) Plants Produced from Highly Regenerative Tissues Derived from Mature Seeds. *Plant Cell Reports* 20: 318-324
- Cho, M.-J., Ha, C.D., **Lemaux, P.G.** 2000. Production of Transgenic Tall Fescue and Red Fescue Plants by Particle Bombardment of Mature Seed-Derived Highly Regenerative Tissues. *Plant Cell Reports* 19: 1084-1089.
- Bregitzer, P., Campbell, R.D., Dahleen, L.S., **Lemaux P.G.**, Cho, M.-J. 2000. Development of Transformation Systems for Elite Barley cultivars. *Barley Genetics Newsletter* 30: 10-12
- Koprek, T., Rangel, S., McElroy, D., Louwerse, J.D., Williams-Carrier, R.E., **Lemaux, P.G.** 2001. Transposon-mediated Single-copy Gene Delivery Leads to Increased Transgene Expression Stability in Barley. *Plant Physiology* 125: 1354-1362.
- Choi, H.W., **Lemaux, P.G.**, Cho, M.-J. 2001. High Frequency of Cytogenetic Aberration in Transgenic Oat (*Avena sativa* L.) plants. *Plant Science* (Shannon) 156(1):85-94.
- Choi, H.W., **Lemaux, P.G.**, Cho, M.-J. 2001. Selection and Osmotic Treatment Exacerbate Chromosomal Aberration in Callus and Plants of Barley (*Hordeum vulgare* L.). *Journal of Plant Physiology*. 158: 935-943.
- Cho M.-J., Le, V.K., Okamoto, D., Kim, Y.B., Choi, H.W., **Lemaux P.G.** 2001. Generation of Transgenic Plants of Creeping Bentgrass (*Agrostis palustris* Huds.) Plants from Mature Seed-derived Highly Regenerative Tissues. Mujib A (ed) *In Vitro Applications in Crop Improvement - Recent Progress*. IBH - Oxford, India.
- Cho, M.-J., Choi, H.W., Bregitzer, P., Zhang, S., **Lemaux, P.G.** 2002. Transgenic Barley (*Hordeum vulgare* L.) and Chromosomal Variation. eds. Jackson, J.F., Linskens, H.F. *Molecular Methods of Plant Analysis. Testing for genetic manipulation in plants*. 22: 169-188.
- Bregitzer, P., Zhang, S., Cho, M.-J., **Lemaux, P.G.** 2002. Reducing Somaclonal Variation in Barley Associated with Culturing Highly Differentiated, Meristematic Tissues. *Crop Science* 42: 1303-1308.
- Wong, J.H., Kim, Y.B., Ren, P.H., Cai, N., Cho, M.-J., Hedden, P., **Lemaux, P.G.**, Buchanan B.B. 2002. Transgenic Barley Grain Overexpressing Thioredoxin Shows Evidence that the Starchy Endosperm Communicates with the Embryo and the Aleurone. *Proceedings of National Academy of Science USA* 99: 16325-16330.
- Cho, M.-J., Choi, H.-W., Jiang, W., Ha, C.D., **Lemaux, P.G.** 2002. Endosperm-specific Expression of Green Fluorescent Protein Driven by the Hordein Promoter is Stably Inherited in Transgenic Barley (*Hordeum vulgare*) plants. *Physiologia Plantarum* 115: 144-154.
- Zhang, S., Wong, L., Meng, L., **Lemaux, P.G.** 2002. Similarity of Expression Patterns of Knotted1 and ZmLEC1 during Somatic and Zygotic Embryogenesis in Maize (*Zea mays* L.). *Planta* 215: 191-194.

- Choi, H.W., **Lemaux, P.G.**, Cho, M.-J. 2002. Use of Fluorescence *In Situ* Hybridization Technique for Mapping of Transgenes and Screening of Homozygous Lines in Transgenic Barley Plants. *Theoretical and Applied Genetics* 106:92-100.
- Zhang, S., Williams-Carrier, R., **Lemaux, P.G.** 2002. Transformation of Recalcitrant Maize Elite Inbreds Using *In Vitro* Shoot Meristematic Cultures Induced from Germinated Seedlings. *Plant Cell Reports* 21:263-270.
- Cho, M.-J., Choi, H.W., Okamoto, D., Zhang, S., **Lemaux, P.G.** 2002. Expression of Green Fluorescent Protein and its Inheritance in Transgenic Oat Plants Generated from Shoot Meristematic Cultures. *Plant Cell Reports* 21: 467-474.
- Meng, L., **Lemaux, P.G.** 2003. A Simple and Rapid Method for Nuclear Run-on Transcription Assays in Plants. *Plant Molecular Biology Reporter* 21: 65-71.
- Meng, L., Zhang, S., Bregitzer, P., **Lemaux, P.G.** 2003. Methylation of 5' Untranslated Exon and Intron in *Ubi1* Promoter Complex Is Correlated with Transcriptional Transgene Silencing in Barley. *Plant Molecular Biology* 53: 327-340.
- Choi, H.W., **Lemaux, P.G.**, Cho, M.-J. 2003 Long-term Stability of Transgene Expression Driven by Barley Endosperm-specific Hordein Promoters in Transgenic Barley. *Plant Cell Reports* 21: 1108-1120.
- Zhang, S., **Lemaux, P.G.** 2004. Molecular Analysis of *In Vitro* Organogenesis. *Critical Reviews of Plant Science* 23: 325-335.
- Zhang, S., **Lemaux, P.G.** 2004. Molecular Aspects of *In Vitro* Shoot Organogenesis. *Plant Development and Biotechnology*, eds. R.N. Trigiano, D.J. Gray, CRC Press. ISBN 0849316146.
- Cooper, L.D., Marquez-Cedillo, L., Singh, J., Sturbaum, A.K., Zhang, S., Edwards, V., Johnson, K., Kleinhofs, A., Rangel, S., Carollo, V., Bregitzer, P., **Lemaux, P.G.**, Hayes, P.M. 2004. Mapping *Ds* Insertions in Barley Using a Sequence-based Approach. *Molecular Genetics and Genomics* 272: 181-193.
- Singh, J., Zhang, S., **Lemaux, P.G.**, Bregitzer, P., Sturbaum, A., Edwards, V., Hayes, P.M., Cooper, L.D., Marquez-Cedillo, L., Carollo V. 2005. Maize Transposable Elements and Barley: A New Population for Genetic Research. *Barley Genetics Newsletter* 35: 1-2.
- Gaj, M.D., Zhang, S., Harada, J.J., **Lemaux P.G.** 2005. Leafy Cotyledon Genes Are Essential for Induction of Somatic Embryogenesis of *Arabidopsis*. *Planta* 222: - 977-988.
- Zhang, S., Chen, C., Li, L., Meng, L., Singh, J, Jiang, N., Deng, X-W., He Z-H, **Lemaux P.G.** 2005. Evolutionary Expansion, Gene Structure, and Expression of the Rice Wall-Associated Kinase Gene Family. *Plant Physiology* 139: 1107-1124.
- Meng, L., Ziv, M., **Lemaux, P.G.** 2006. Nature of Stress and Transgene Locus Influences Transgene Expression Stability in Barley. *Plant Molecular Biology* 62: 15-28.
- Singh, J., Zhang, S., Chen, C., Cooper, L., Bregitzer, P., Sturbaum, A., Hayes, P.M., **Lemaux, P.G.** 2006. High-frequency *Ds* Remobilization Over Multiple Generations in Barley Facilitates Gene Tagging in Large Genome Cereals. *Plant Molecular Biology* 62: 937-950.
- Buchanan, B.B., Wong, J.H., Cho, M.-J., Kim, Y.-B., Hung, H.R., Kim, H.-K., Morigasaki, S., **Lemaux, P.G.**, Moss, R.B., Teuber, S.S., Frick, O.L. 2006. Gluten

- Proteins 2006. In: Lookhard GL, Nr PKW (eds) The Dog as a Model for Assessing Food Allergens in Wheat. AACC Intl., St. Paul MN, pp. 338-342.
- Bregitzer, P., Cooper, L.D., Hayes, P.M., **Lemaux, P.G.**, Singh, J., Sturbaum, A.K. 2007. Viability and *bar* Expression Are Negatively Correlated in Oregon Wolfe Barley Dominant Hybrids. 2007. *Biotechnology Journal*, 5: 381-388.
- Zhang, S., Gu, Y.Q., Singh, J., Coleman-Derr, D., Brar, D.S., **Lemaux, P.G.** 2007. New Insights into *Oryza* Genome Evolution: High Gene Colinearity and Differential Retrotransposon Amplification. *Plant Molecular Biology*, 64: 589-600.
- Gurel, E., Gurel, S., **Lemaux, P.G.** 2008. Biotechnology Applications for Sugar Beet. Ed. D. Gray. *Critical Reviews in Plant Sciences* 27 (2): 108-140 DOI: 10.1080/073526808022020.
- Lemaux P.G.** 2008. "Genetically Engineered Plants and Foods: A Scientist's Analysis of the Issues (Part I). *Annual Review of Plant Biology* 59: 771-812.
- Wong J.H., Lau T., Cai N., Singh J., Pedersen J.F., Vensel, W.H., Hurkman, W.J., Wilson, J.D., **Lemaux, P.G.**, Buchanan, B.B. 2008. Digestibility of Protein and Starch from Sorghum (*Sorghum bicolor*) Is Linked to Biochemical and Structural Features of Grain Endosperm. *Journal of Cereal Science* 49(1): 73-82. (<http://dx.doi.org/10.1016/j.jcs.2008.07.013>)
- Ganeshan S, Chibbar, R.M., Dahleen LS, Tranberg J, **Lemaux PG.** 2008. Barley. Eds. Kole, C. and Hall, T. C. in *Compendium of Transgenic Crop Plants: Transgenic Cereals and Forage Grasses*, Blackwell Publishing, Oxford, UK, ISBN: 9781405181099 pp. 101-138.
- Gurel, S., Gurel, E., Kaur, R., Wong, J., Meng, L., Tan, H-Q., **Lemaux, P.G.** 2009. Efficient, Reproducible *Agrobacterium*-mediated Transformation of Sorghum Using Heat Treatment of Immature Embryos. *Plant Cell Reports* 28: 429-444 (DOI 10.1007/s0029-008-0655-1).
- Li, Y., Ren, J., Cho, M-J., Zhou, S., Kim, Y.B., Guo, H., Wong, J.H., Niu, H., Kim, H-K., Morigasaki, S., **Lemaux, P.G.**, Frick, O.L., Yin, J., Buchanan B.B. 2009. The Level of Expression of Thioredoxin is Linked to Fundamental Properties and Applications of Wheat Seeds. *Molecular Plant* 2: 430-441 doi:10.1093/mp/ssp025.
- Lemaux P.G.** 2009. "Genetically Engineered Plants and Foods: A Scientist's Analysis of the Issues (Part II). *Annual Review of Plant Biology* 60: 511-559.
- Randhawa, H.S., Singh, J., **Lemaux, P.G.**, Gill, K.S. 2009. Mapping Barley *Ds* Insertions Using Wheat Deletion Lines Reveals High Insertion Frequencies in Gene-rich Regions with High to Moderate Recombination Rates. *Genome*, 52: 566-575.
- Choi, H-W., Yu, X-H., **Lemaux, P.G.**, Cho, M-J. 2009. Stability and Inheritance of Endosperm-specific Expression of Two Transgenes in Progeny from Crossing Independently Transformed Barley Plants. *Plant Cell Reports* 28: 1265-1272 DOI: 10.1007/s00299-009-0726-y.
- Meng, L., Wong, J.H., Feldman, L., **Lemaux, P.G.**, Buchanan, B.B. 2010. A Membrane-associated Thioredoxin Required for Plant Growth Moves from Cell to Cell, Suggestive of a Role in Intercellular Communication. *Proceedings National Academy of Science USA.*, 107: 3900-3905.

- Meng, L., Zhang, S., **Lemaux, P.G.** 2010. Toward Molecular Understanding of *In Vitro* and *In Planta* Shoot Organogenesis. *Critical Reviews of Plant Sciences* 29: 108-122.
- Meng, L., Zhang, S., **Lemaux, P.G.** 2010. Developing a Molecular Understanding of *In Vitro* and *In Planta* Shoot Organogenesis. In: *Plant Tissue Culture, Development and Biotechnology*. Trigiano, R. N., Gray, D. (eds.), CRC Press, pp. 259-278.
- Wong, J.J., Marx, D. B., Wilson, J.D., Buchanan, B.B., **Lemaux, P.G.**, Pedersen, J.F. 2010. Principal Component Analysis and Biochemical Characterization of Protein and Starch Reveal Primary Targets for Improving Sorghum Grain. *Crop Science*, 50: 1480-1489.
- Ren J-P., Li, Y., Wong J.H., Meng L., Cho M-J., Buchanan B.B., Yin J, **Lemaux P.G.** 2011. Modifying Thioredoxin Expression in Cereals Leads to Improved Pre-Harvest Sprouting Resistance and Changes in Other Grain Properties. *Seed Science Research* 22: S30-S35.
- Gurel S., Gurel E., Miller T.I., Lemaux P.G. 2012. Agrobacterium-Mediated Transformation of *Sorghum bicolor* Using Immature Embryos. In: *Transgenic Plants: Methods and Protocols*. Methods in Molecular Biology. Dunwell J.J., Wetten A.C. 847: 109-122.
- Wong, J.H., Pedersen, J.F., Buchanan, B.B., Lemaux, P.G. 2012. Western Blot Analysis Uncovers Clues to Prolamin Digestibility in Raw and Cooked of Meal from Sorghum and Corn. *European Journal of Plant Science and Biotechnology* 6 (Special Issue 1): 56-65 (Print ISSN 1752-3842)
http://www.globalsciencebooks.info/JournalsSup/12EJPSB_6_SII.html
- Coulman, B., Heaton, E., Lefsrud, M., f, D., Neale, D., **Lemaux, P.G.**, Singh, J., Smith, D.L., Whalen, J. 2013. Lignocellulosic Biofuel Feedstocks. *Biofuels, Bioproducts & Biorefining* 7: 582–601.
- Brown, R.H., Dahleen, L.S., **Lemaux, P.G.**, Bregitzer, P. 2014. Registration of the Barley Transposon-Tagged Population I: Seventy Lines - Each with a Single, Unique Site of *Ds* Insertion. *J Plant Registrations* 8: 226-230.
- Brown, R.H., Singh, J., Singh, S., Dahleen, L.S., **Lemaux, P.G.**, Stein, N., Mascher, M., Bregitzer, P. 2014. Behavior of a modified *Dissociation* element in barley: A novel tool for genetic studies and for breeding transgenic barley. *Molecular Breeding* 35 (3): 85 DOI 10.1007/s11032-015-0193-9.
- Muñoz-Amatriaín, M., Lonardi, S., Luo, MC., Madishetty, K., Svensson, J.T., Moscou, M.J., Wanamaker, S., Jiang, T., Kleinhofs, A., Muehlbauer, G.J., Wise, R.P., Stein, N., Ma, Y., Rodriguez, E., Kudrna, D., Bhat, P.R., Chao, S., Condamine, P., Heinen, S., Resnik, J., Wing, R., Witt, H., Alpert, M., Beccuti, M., Bozdag, S., Cordero, F., Mirebrahim, H., Ounit, R., Wu, Y., You, F., Zheng, J., Šimková, H., Doležel, J., Grimwood, J., Schmutz, J., Duma, D., Altschmied L., Blake, T., Bregitzer, P., Cooper, L., Dilbirli, M., Falk, A., Feiz, L., Graner, A., Gustafson, P., Hayes, P.M., **Lemaux, P.G.**, Mammadov, J., Close, T.J. 2015. Sequencing of 15,622 gene-bearing BACs clarifies the gene-dense regions of the barley genome. *The Plant Journal* 84: 216-227.

- Altpeter, F., Springer, N.M., Bartley, L.E., Blechl, A.E., Brutnell, T.P., Citovsky, V., Conrad, L.J., Gelvin, S.B., Jackson, D.P., Kausch, A.P., **Lemaux, P.G.**, Medford, J.I., Orozco-Cárdenas, M.L., Tricoli, D.M., Van Eck, J., Voytas, D.F., Walbot, V., Wang, K., Zhang, Z.J., Stewart, C.N. Jr. 2016. Advancing Crop Transformation in the Era of Genome Editing. *The Plant Cell*. June 22, 2016. doi:10.1105/tpc.16.00196.
- Kirst, H., Gabilly, S.T., Niyogi, K.K., **Lemaux, P.G.**, Melis, A. 2017. Increasing crop plant canopy productivity upon decreasing the light-harvesting antenna size of photosynthesis. *Planta* 245:1009-1020; DOI : 10.1007/s00425-017-2659-y.
- Kleist, T.J., Cartwright, H.N., Perera, A.M., Christianson, M.L., **Lemaux, P.G.**, Luan, S. 2017. Genetically Encoded Calcium Indicators for Fluorescence Imaging in the Moss *Physcomitrella*: GCaMP3 Provides a Bright New Look.. *Plant Biotechnology Journal* July 20, 2017 doi: 10.1111/pbi.12769.
- Singh, S., Tripathi, R.K., **Lemax, P.G.**, Buchanan, B.B., Singh J. 2017. Redox-dependent interaction between thaumatin-like protein and β -glucan that influences the malting quality of barley. *Proceedings National Academy of Science* 114 (29) 7725-7730.

Abstracts (since 1998)

- Koprek, T., McElroy, D., Williams-Carrier, R., Louwerse, J., **Lemaux, P.G.** 1998. Use of the maize transposable element *Ac/Ds* in Barley (*Hordeum vulgare* L.) Impact of Molecular Biology on Crop Production, Minneapolis MN August 1998.
- Cho, M.-J., Ha, C.D., Buchanan, B.B., and **Lemaux, P.G.** 1998. Subcellular targeting of barley hordein promoter-*uidA* fusions in transgenic barley seed. In 1998 Meeting of the Society for In Vitro Biology Las Vegas, Nevada, USA (Las Vegas, Nevada: In Vitro Cellular & Developmental Biology Animal), pp. 48A.
- Lemaux, P.G.**, Cho, M.-J., Zhang, S., Bregitzer, P. 1999. Transgenic small grain cereals: From laboratory to field to marketplace. *In Vitro Cellular & Developmental Biology* 35 (3 Part 2):18.A.
- Kim, H.-K., **Lemaux, P.G.**, Buchanan, B.B., Cho, M.-J. 1999. Reduction of genotype limitation in wheat (*Triticum aestivum* L.) transformation. *In Vitro Cellular & Developmental Biology* 35 (3 Part 2):43.A.
- Cho, M.-J., Ha, C.D., **Lemaux, P.G.** 1999. Production of transgenic tall fescue and red fescue plants by particle bombardment of highly regenerative tissues. *In Vitro Cellular & Developmental Biology* 35 (3 Part 2): 60.A.
- Cho, M.-J., **Lemaux, P.G.** 1999. Transgenic orchardgrass (*Dactylis glomerata* L.) plants produced from highly regenerative tissues. *In Vitro Cellular & Developmental Biology* 35 (3 Part 2): 60.A.
- Cho, M.-J., Choi, H.W., Jiang, W., Ha, C.D., **Lemaux, P.G.** 1999. Expression and inheritance of green fluorescence protein (*gfp*) in transgenic barley plants. *In Vitro Cellular & Developmental Biology* 35 (3 Part 2):59.A.
- Koprek, T., McElroy, D., Williams-Carrier, R., Louwerse, J., **Lemaux, P.G.** 1999. Use of the maize transposable element *Ac/Ds* in barley (*Hordeum vulgare* L.). 16th American Barley Researchers Workshop, p. 48.

- Cho, M.-J., Buchanan, B.B., **Lemaux, P.G.** 1999. Development of transformation systems for monocotyledonous crop species and production of foreign proteins in transgenic barley and wheat seeds. In: *Application of Transformation Technology in Plant Breeding*. Special Seminar for 30th Anniversary Korean Breeding Soc., Suwon, Korea, November 19, 1999, pp. 39-53.
- Cho, M.-J., Choi, H.W., **Lemaux, P.G.** 1999. Stable inheritance of seed-specific expression of transgenes and increased cytological variation in transgenic plants. In: *Application of Transformation Technology in Plant Breeding*. Special Seminar for 30th Anniversary Korean Breeding Soc., Suwon, Korea, November 19, 1999, pp. 55-63.
- Zhang, S., Cho, M.-J., Bregitzer, P., **Lemaux, P.G.** 1999. Comparative analysis of genomic DNA methylation status and field performance of plants derived from embryogenic calli and shoot meristematic cultures. In *Plant Biotechnology and In Vitro Biology in the 21st Century*. Altman, A., Ziv, M., Izhar, S. (eds.). Kluwer Academic Pub., pp. 263-267.
- Bregitzer P., Campbell, R.D., Dahleen, L.S., **Lemaux, P.G.**, Cho M.-J. 2000. Development of transformation systems for elite barley cultivars. *Barley Genet. Newsl.* 30: 10-12
- Cho, M.-J., Kim, H.-K., Choi, H.W., Buchanan, B.B., **Lemaux, P.G.** 2000. Endosperm-specific GFP expression driven by barley D-hordein promoter and its inheritance in transgenic barley and wheat plants. *In Vitro Cellular & Developmental Biology* 36 (3 Part 2):63.A.
- Choi, H.W., **Lemaux, P.G.**, Cho, M.-J. 2000. Factors affecting increased chromosomal aberrations in callus cultures and plants of barley (*Hordeum vulgare* L.) during transformation process. *In Vitro Cellular & Developmental Biology* 36 (3 Part 2):62.A.
- Ha, C.D., **Lemaux, P.G.**, Cho, M.-J. 2000. Transgenic plants of Kentucky bluegrass (*Poa pratensis* L.) generated from mature seed-derived highly regenerative tissues. *In Vitro Cellular & Developmental Biology* 36 (3 Part 2):64.A.
- Lemaux, P.G.** 2000 Transposable Elements as Efficient Vehicles for Tagging and Gene Delivery in Barley, Second Annual Retreat, PMB/NADI Strategic Alliance, September 29, 2000, p. 33.
- Choi, H.W., **Lemaux, P.G.**, Cho, M.-J. 2000. Use of fluorescence *in situ* hybridization for mapping of transgenes and screening of homozygous plants in transgenic barley (*Hordeum vulgare* L.). *In Vitro Cellular & Developmental Biology* Animal March, 2000. 36 (3 Part 2): 42.A.
- Cho, M.-J., Le, K.V., Okamoto, D., **Lemaux, P.G.** 2000. Generation of transgenic creeping bentgrass (*Agrostis palustris* Huds.) plants from mature seed-derived highly regenerative tissues. *In Vitro Cellular & Developmental Biology* 36 (3 Part 2):64.A.
- Lemaux, P.G.** 2001. Genetically Modified Foods: Science Controversy for All. AAAS Annual Meeting and Science Innovation Exposition, February 15-20, 2001, S18.
- Koprek, T., McElroy, D., Lowerse, J., Williams-Carrier, R., Rangel, S., **Lemaux, P.G.** 2001 Transposable Elements as Efficient Vehicles for Tagging and Gene Delivery

- in Barley. Plant and Animal Genome Meeting San Diego CA USA January 16, 2001
- Wong, J., Ren, P.H., Cai, N., Kim, H.K., Cho, M.-J., **Lemaux, P.G.**, Buchanan, B.B. 2001. Thioredoxin-linked proteins in transgenic cereals over-expressing thioredoxin *h*. ASPP Plant Biology 2001, Providence, RI; p. 69.
- Koprek, T., Rangel, S., McElroy, D.M., Louwerse, J., Williams-Carrier, R., **Lemaux, P.G.** 2001. Transposable elements as efficient vehicles for tagging and gene delivery in barley. ASPP Plant Biology 2001, Providence, RI; p. 140-141.
- Choi, H.W., **Lemaux, P.G.**, Cho, M.-J. 2001. Long-term stability of transgene expression driven by barley endosperm-specific hordein promoters in transgenic barley (*Hordeum vulgare* L.) plants. (Congress on In Vitro Biology St. Louis, Missouri, USA June 16-20, 2001) *In Vitro Cellular & Developmental Biology Animal*. March, 2001. 37:39.A.
- Cho, M.-J., **Lemaux, P.G.** 2001. An efficient system for transformation and plant regeneration of Sorghum using highly regenerative, green tissues. (Congress on In Vitro Biology St. Louis, Missouri, USA June 16-20, 2001) *In Vitro Cellular & Developmental Biology Animal*. March, 2001. 37:38.A.
- Choi, H.W., **Lemaux, P.G.**, Cho, M.-J. 2001. Transformation process exacerbates cytological variation in transgenic grass and cereal plants. (Congress on In Vitro Biology St. Louis, Missouri, USA June 16-20, 2001) *In Vitro Cellular & Developmental Biology Animal*. 37:38.A.
- Cho, M.-J., Buchanan, B.B., **Lemaux, P.G.** 2001. Use of barley endosperm-specific hordein promoters for production of recombinant proteins in transgenic cereal seeds. (Congress on In Vitro Biology St. Louis, Missouri, USA June 16-20, 2001) *In Vitro Cellular & Developmental Biology Animal*. 37:23.A.
- Cho, M.-J., Yano, H., Okamoto, D., Le, V.K., Newcomb, K.L., Buchanan, B.B., **Lemaux, P.G.** 2001. High-frequency transformation of rice (*Oryza sativa* L.) via microprojectile bombardment of mature seed-derived highly regenerative tissues. (Congress on In Vitro Biology St. Louis, Missouri, USA June 16-20, 2001) *In Vitro Cellular & Developmental Biology Animal*. 37:38.A.
- Lemaux, P.G.**, Hayes, P., Bregitzer, P., Carrollo, V. 2001. Transposon-mediated Functional Genomics in Barley, National Science Foundation Genomics Symposium, September 13, 2001
- Lemaux, P.G.** 2001. Transgene Expression Stability in Barley, Torrey Mesa Research Institute-UC Berkeley Symposium, October 19, 2001
- Yu, X.-H., Bregitzer, P.P., Cho, M.-J., **Lemaux, P.G.** 2001 Using the Maize *Ac-Ds* System to Obtain Marker-free Transgenic Barley Plants that Stably Express Putative Antifungal Proteins. 2001 National Fusarium Head Blight Forum Proceedings, Cincinnati OH, December 8-10, p. 43.
- Lemaux, P.G.**, Koprek, T., Rangel, S., Meng, L., Zhang, S., Bregitzer, P. 2002. To Express or Not To Express: Transgene Expression Instability in Barley, Plant and Animal Genome XIV, San Diego CA, January 20, 2002
- Godwin, I.D., Gray, S.J., Izquierdo, L., Laidlaw, H.C.K., Williams, S., Donohoe, J.J., **Lemaux, P.G.**, Buchanan, B.B. 2002. Transgenic approaches to making sorghum

- a more attractive crop. (2002 Congress on In Vitro Biology Orlando, FL, USA June 25-29, 2002) In *Vitro Cellular & Developmental Biology Animal*. Springer, 2002. 38(Abstract):99.A.
- Yu, X.-H., Bregitzer, P., Cho, M.-J., Chung, M.L., **Lemaux, P.G.** 2002. Transposon-mediated generation of marker-free barley plants expressing putative antifungal proteins. 2002 National Fusarium Head Blight Forum Proceedings. Erlanger, KY. Dec. 7-9, 2002.
- Meng, L., Zhang, S., Bregitzer, P., Ziv, M., Fessenden, R., Rangel, S., **Lemaux, P.G.** 2002. Transgene silencing in barley. Plant, Animal & Microbe Genomes X Conference, San Diego, CA, January 12-16, 2003.
- Albert, H.H., Wang, M.-L., **Lemaux, P.G.**, Moore, P.H. 2002. The Ac-Ds transposon system-a tool for engineering and research in sugarcane. Plant, Animal & Microbe Genomes X Conference, San Diego, CA, January 12-16, 2003.
- Zhang, S., Thomas, B.C., **Lemaux, P.G.** 2002. Detailed analysis of coding sequences conservation between rice, nonrice cereals species, and Arabidopsis using unigene datasets, BAC clones and the rice genome. Plant, Animal & Microbe Genomes X Conference, San Diego, CA, January 12-16, 2003.
- Zhang, S., Thomas, B.C., **Lemaux, P.G.** 2002. A database of coding sequences conservation between rice and nonrice cereals, and Arabidopsis. Plant, Animal & Microbe Genomes X Conference, San Diego, CA, January 12-16, 2003.
- Zhang, S., Williams-Carrier, R., **Lemaux, P.G.** 2002. Transformation of maize elite inbreds (e.g. B73) using germinated seedlings. Plant, Animal & Microbe Genomes X Conference, San Diego, CA, January 12-16, 2003.
- Lemaux, P.G.**, Cooper, L., Hayes, P.M., Marquez-Cedillo, L., Rangel, S., Singh, J., Zhang, S. 2002. High efficiency transposon-mediated tagging and mapping of transcriptionally active regions of barley. Plant, Animal & Microbe Genomes X Conference, San Diego, CA, January 12-16, 2003.
- Sturbaum, A.K., Singh, J., Zhang, S., Cooper, L., Rangel, S., Hayes, P.M., **Lemaux, P.G.**, Bregitzer, P. 2003. *Ds* transposition of the maize *Ac/Ds* system in a barley population developed for directed gene tagging. Transposition, Recombination and Application to Plant Genomics, Iowa State University, June 5-8, 2003.
- Meng, L., Ziv, M., Fessenden, R., Rangel, S., Zhang, S., **Lemaux, P.G.** 2003. Influence of internal and external factors on transgene silencing in barley. American Society of Plant Biologists Plant Biology Meeting, Honolulu, HI, July 25-30, 2003, p. 218.
- Yu, X.-H., Bregitzer, P., Cho, M.-J., Chung, M.L., Yu, H.-S., **Lemaux, P.G.** 2003. Generation of barley plants containing *Ds*-bordered transgenes encoding antifungal proteins: a resource for generating marker-free plants with stable expression of fungal resistance. American Society of Plant Biologists Plant Biology Meeting, Honolulu, HI, July 25-30, 2003, p. 171.
- Singh, J., Zhang, S., Cooper, L., Rangel, S., Hayes, P.M., **Lemaux, P.G.** 2003. *Ac/Ds* transposon-mediated gene tagging in barley: characteristics and implications for a heterologous system. American Society of Plant Biologists Plant Biology Meeting, Honolulu, HI, July 25-30, 2003, p. 204
- Cho, M.-J., Jung, H.R., Kim, H.-K., Choi, H.W., Caillaud, M., del Val, G., Yoo, H.-S., Kim,

- Y.-B., Keum, H., Buchanan, B.B., **Lemaux, P.G.** 2003. Isolation and characterization of thioredoxin *h* and NADP-thioredoxin reductase genes from barley (*Hordeum vulgare* L.). American Society of Plant Biologists Plant Biology Meeting, Honolulu, HI, July 25-30, 2003, p. 135.
- Singh, J., Zhang, S., Cooper, L., Rangel, S., Hayes, P.M., **Lemaux, P.G.** 2003. Behaviour of maize *Ac/Ds* in gen tagging populations of barley. XIX International Congress of Genetics, Melbourne, Australia, July 6-11, 2003.
- Koprek, T., Zhao, T., Zimmermann, D., **Lemaux, P.G.**, Schulze-Lefert, P. 2003. Systematic *Ac/Ds* transposon mutagenesis in barley (*Hordeum vulgare* L.). XIX International Congress of Genetics, Melbourne, Australia, July 6-11, 2003.
- Koprek, T., Zimmermann, D., **Lemaux, P.G.**, Schulze-Lefert, P. 2003. Position effects on Transgene expression instability and *trans*-silencing effects in Barley. XIX International Congress of Genetics, Melbourne, Australia, July 6-11, 2003.
- Godwin, I., Byrne, E., Zhang, S., Cho, M.-J., **Lemaux, P.G.** 2003. Retrotransposons and cereal genome instability: BARE-1 activation in the genetic transformation of barley. XIX International Congress of Genetics, Melbourne, Australia, July 6-11, 2003.
- Cooper, L.D., Marquez-Cedillo, L., Singh, J., Sturbaum, A.K., Zhang, S., Edwards, V., Johnson, K., Kleinhofs, A., Rangel, S., Carollo, V., Bregitzer, P., **Lemaux, P.G.**, Hayes, P. M. 2003. Development of a transposon tagging resource in barley. Plant Genetics Meeting on Mechanisms of Genetic Variation, October 22-26, 2003, Snowbird, UT, USA Abst 63 2003.
- Yu, X.-H., Bregitzer, P., Cho, M.-J., Hsueh, L.-C., Yu, H.-S., **Lemaux, P.G.** 2003. Introduction of Putative Antifungal Genes into Two-row and Six-row Barley through Genetic Engineering. 2003 National Fusarium Head Blight Forum, Bloomington, MN, December 13-15, 2003.
- Meng, L., Zhang, S., Buchanan, B.B., **Lemaux, P.G.** 2003. Transcriptional characterization of the thioredoxin family in barley. 43rd Annual Meeting for the American Society for Cell Biology, San Francisco, CA, December 13-17, 2003.
- Albert, H.H., Wang, M.-L., Goldstein, C., **Lemaux, P.G.**, Yu, X.-H., Moore, P.H. 2003. Does single-copy transgene introduction reduce the frequency of PTGS in sugarcane? Plant, Animal & Microbe Genomes XII Conference, San Diego, CA, January 10-14, 2004.
- Lowe, C., Gates, C., Rangel, S., **Lemaux, P.G.**, Singh, J. 2004. Gene tagging of morphological traits in Oregon Wolfe Barley using transposable elements. Society for *In Vitro* Biology 2004 World Congress on *In Vitro* Biology, San Francisco, May 22-26, 2004.
- Meng, L., Ziv, M., **Lemaux, P.G.** 2004. Nature of transgene locus affects tendency to silence as a result of in vitro stress. Society for *In Vitro* Biology 2004 World Congress on *In Vitro* Biology, San Francisco, May 22-26, 2004.
- Singh, J., Zhang, S., Cooper, L., Rangel, S., Kaur, R., Sturbaum, A.K., Edwards, V., Bregitzer, P., Hayes, P.M., **Lemaux, P.G.** 2004. *Ac/Ds* transposon-mediated gene discovery in barley. Society for *In Vitro* Biology 2004 World Congress on *In Vitro* Biology, San Francisco, May 22-26, 2004.

- Choi, H. W., Yu, X.-H., **Lemaux, P.G.**, Cho, M.-J. 2004. Stability and inheritance of endosperm-specific expression of two transgenes in progeny of crosses of independently transformed barley (*Hordeum vulgare* L.) plants. Society for *In Vitro* Biology 2004 World Congress on *In Vitro* Biology, San Francisco, May 22-26, 2004, page 68-A.
- Lemaux, P.G.** 2004. What's Next in Plant Genome Research? 2004 AAAS Annual Meeting, Seattle, WA, p. S11.
- Cooper, L., Marquez-Cedillo, L., Bregitzer, P., Edwards, V., Johnson, K., Kleinhofs, A., **Lemaux, P.G.**, Rangel, S., Singh, J., Sturbaum, A.K., Zhang, S., Hayes, P. 2004. Functional Genomics in Barley: Mapping *Ds* Insertions in the Oregon Wolfe Barleys. 9th International Barley Genetics Symposium, Brno, Czech Republic, June 20-26, 2004.
- Singh, J., Zhang, S., Cooper, L., Rangel, S., Hayes, P.M., **Lemaux, P.G.** 2004. Functioning of Maize *Ac/Ds* Transposons in Barley Gene Tagging Populations. 9th International Barley Genetics Symposium, Brno, Czech Republic, June 20-26, 2004.
- Singh, J., Zhang, S., East, G., Gates, C., Kaur, R., Lowe, C., **Lemaux, P.G.** 2004. Unraveling the barley genome using an *Ac/Ds* transposon tool. American Society of Plant Biologists Plant Biology Meeting, Lake Buena Vista, FL, July 24-28, 2004, pp. 189-190.
- Buchanan, B.B., **Lemaux, P.G.** 2004. Thioredoxin: from laboratory to products. American Society of Cereal Chemists Annual Meeting, San Diego, CA, September 19-22, 2004.
- Van Eenennaam, A.L., **Lemaux, P.G.** 2004. Genetic Engineering in California Agriculture: bringing science into the dialogue. Third Annual NAACA Western Region Professional Improvement Meeting, Woodland, CA, October 28-29, 2004.
- Singh, J., Zhang, S., Cooper, L.D., Marquez-Cedillo, L., Sturbaum, A.K., Carollo, V., Bregitzer, P., Hayes, P.M., **Lemaux, P.G.** 2005. *Ac/Ds* Transposon Tools for Barley Functional Genomics. Plant and Animal Genome Meeting San Diego CA USA January 15-19, 2005.
- Buchanan, B.B., Cho, M.-J., Wong, J.H., **Lemaux, P.G.**, Ng, P.K.W. 2005. Thioredoxin over-expressed in transgenic wheat improves dough quality. American Association of Cereal Chemists, Orlando, FL, September 11-14, 2005.
- Lemaux, P.G.**, Van Eenennaam, A.L., McHughen, A. 2005. Food fights in California – Educational challenges of the GMO debate. American Society of Plant Biologists Annual Meeting, Seattle, WA, July 16-20, 2005, p. 73 and p. 320 (Mini-symposium).
- Singh, J., Zhang, S., Cooper, L., Chen, C., Ou, M., Bae, D., Sturbaum, A., Carollo, V., Bregitzer, P., Hayes, P., **Lemaux, P.G.** 2005. Genetic Tourism and Functional Genomics of Barley using *Ac/Ds* Transposon system. American Society of Plant Biologists Annual Meeting, Seattle, WA, July 16-20, 2005, pp. 297-298.
- Singh, J., Zhang, S., Chen, C., Cooper, L., Sturbaum, A., Freudiger, M., Bregitzer, P., Hayes, P., **Lemaux, P.G.** 2006. Targeting genes and their function in the “genome

- haystack”: transposon-based saturation mutagenesis. Plant and Animal Genome Meeting, San Diego, CA, January 14-18, 2006. p. 10.
- Kaur, R., Wong, J., Singh, J., Yu, X.-H., Cho, M.-J., **Lemaux, P.G.**, Buchanan, B.B. 2006. Efforts towards development of nutritionally enhanced sorghum. Plant and Animal Genome Meeting, San Diego, CA, January 14-18, 2006. p. 273.
- Lemaux P.G.**, Zhang S., Gu Y.Q., Singh J., He Z-H. 2006. Evolutionary Expansion and Divergence of the Stress Tolerance Gene Families, *OsDREB1* and *OsWAK*, in Wild and Cultivated Rice Genomes. 31ST Rice Technical Working Group Meeting, The Woodlands, TX, February 26-March 1, 2006. pp. 56-57.
- Freudiger, M., Rha, M., Wang, K., Sattayapiwat, O., Zhang, S., **Lemaux, P.G.**, Singh, J. 2006. Using *Ac/Ds* Gene Tagging for Functional Genomics Studies in Barley. American Society of Plant Biologists Plant Biology Meeting, Boston, MA, August 5-9, 2006. P. 301.
- Singh, J., Vutien, P., Blossie, P., Gong, A., Sandhu, H., Shafir, A., Sotelo-Troha, K., **Lemaux, P.G.** 2007. Transposon-mediated Gene Search in Barley. American Society of Plant Biologists Plant Biology Meeting, Chicago, IL, July 7-11, 2007.
- Kaur, R., Wong, J., Singh, J., Pedersen, J.F., **Lemaux, P.G.**, Buchanan, B.B. 2007. Toward Development of Nutritionally Enhanced Sorghum. National Information Management and Support System, W1168: Environmental and Genetic Determinants of Seed Quality and Performance, Davis, CA September 15-17, 2007, p. 58.
- Sahoo L., Lindquist, J.L., Lee, D.J., Pedersen, J.F., Kaur, R., Wong, J.H., Buchanan, B.B., **Lemaux, P.G.** 2008. Effect of Transgenes from Sorghum on the Fitness of Shattercane X Sorghum Hybrids. North Central Weed Science Society, St. Louis MO. December 10-13, 2007
- Lemaux, P.G.**, Kaur, R., Wong, J., Singh, J., Gurel, S., Gurel, E., Pedersen, J.F., Taylor, J., Chikwamba, R., Jung, R., Zhao, Z.-Y., Anderson, P., Buchanan, B.B. 2008. “Toward Nutritional Enhancement of Sorghum for Africa”, Plant and Animal Genome XVI, San Diego CA, January 12-16, 2008. W474. pp. 110.
- Lemaux, P.G.**, Wong, J., Gurel, S., Gurel, E., Kaur, R., Pedersen, J.F., Buchanan BB. 2008. Efficient, Reproducible Transformation System for Sorghum to Understand and Improve Digestibility. International Conference on Sorghum for Biofuel. Houston TX. August 18-20, 2008.
- Miller, T., Trieu, E., Lee, C. **Lemaux, P.G.** 2009. Improving *Agrobacterium tumefaciens*-mediated Gene Delivery in *Sorghum bicolor*. Western Section of American Society of Plant Biologists. Tucson AZ., April ??, 2009.
- Lemaux PG**, Gurel S, Gurel E, Kaur R, Wong J, Miller T, Lee C, Linden K., Wu S, Buchanan BB. 2009. Improving *Agrobacterium tumefaciens*-mediated Gene Delivery to Understand and Improve Sorghum. American Society of Plant Biologists and Phycological Society of America Meeting, July 18-22, 2009, Honolulu HI. Abstract P46028, pp. 315.
- Li Y-C, Ren J, Frick O, Yin J, Buchanan BB, Cho M-J, Zhou S, Kim Y-B, Wong JH, Hiu H, Kim H-K, Morigasaki S, **Lemaux PG**. 2009. Modulation of Expression of Thioredoxin Is Linked to Fundamental Properties and Important Applications in

- Wheat Grain. American Society of Plant Biologists and Phycological Society of America Meeting, July 18-22, 2009, Honolulu HI. Abstract P61022, pp 392.
- Miller T, Linden K, Hoffman G, Schubert M, Gurel E, Gurel S, **Lemaux, P.G.** 2010. Improving *Agrobacterium tumefaciens*-mediated gene delivery in *Sorghum bicolor*. *In Vitro Cellular and Developmental Biology - Animal*, 46:S143, 2010. DOI: 10.1007/s11626-010-9339-6.
- Lemaux P.G.**, Ren J-P., Li J-C., Wong J., Meng L., Cho M-J, Yin J., Buchanan BB. 2011. Modifying Expression of Thioredoxin in Cereals to Improve Pre-harvest Sprouting Resistance and Other Grain Properties. 10th Conference of International Society for Seed Science, Salvador Brazil, April 10-13, 2011.
- Leiboff S, Kaur, R, Wong J, Buchanan BB, **Lemaux P.G.** 2011. Effects of Varying Nitrogen and Water Availability on the Quality and Structure of Transgenic and Nontransgenic *Sorghum bicolor* Grain. Annual Meeting American Society of Plant Biologists, Minneapolis MN Aug. 6-10, 2011, P06042.
- Spencley A, Kleist T, Leiboff S, Miller T, Lisch D, **Lemaux P.G.** 2011. MuLE Elements in the *Sorghum bicolor* Genome: A Tool for Functional Genomics in a Cereal Crop. Annual Meeting American Society of Plant Biologists, Minneapolis MN Aug. 6-10, 2011, P15066.
- Merk H, Douches D, Van Deynze A, Stone A, Liedl BE, Coe M, McQueen J, Namuth-Covert D, Wheeler N, Hertsgaard K, **Lemaux P.G.**, De Jong W, Francis DM. 2012. Plant Translational Genomics Research and Crop Improvement: Putting Research into Practice through the Plant Breeding and Genomics Community of Practice. International Plant and Animal Genome Conference. San Diego CA.
- Trevino D, Rico-Moreno N, Alonso B, **Lemaux P.G.**, Reynaga-Pena CG. 2012. A Microscopic World at the Touch: Learning Biology with Novel 2.5 and 3D Tactile Models. Tactile Graphics 2012 Conference. Nov. 11-12, 2012. Baltimore MD.
- Miller T., Wong J., Buchanan B.B., **Lemaux P.G.** 2012. Increasing digestibility of grain sorghum by over-expression of a key redox protein, thioredoxin *h*. Annual Meeting American Society of Plant Biologists, Austin TX July 20-24, 2012, p. 78. Poster number P02046.
<http://precis.preciscentral.com/utills/ip/ShowSummary.asp?AbstractId=609&Presenter=>
- Kleist, T.J.; Spencley, A.L.; Luan, S.; **Lemaux, P.G.** “The Molecular Toolkit of the Primordial Plant: Insights from the CBL-CIPK Network”. Western ASPB Section meeting. Davis CA. April 13, 2013.
- Kleist, T.J.; Spencley, A.L.; Luan, S.; **Lemaux, P.G.** “The Molecular Toolkit of the Primordial Plant: Insights from the CBL-CIPK Network”. Midwest Plant Cell Dynamics Meeting. Madison WI. June 5-7, 2013.
- Zhang R., Cheung K-W. Wong J.H., Shen-Miller J., **Lemaux P.G.**, Buchanan B.B. 2013. Implications for redox in longevity of Sacred Lotus seeds. Annual Meeting American Society of Plant Biologists, Providence RI July 20-24, 2013. P23011.
- Kleist T., Spencley A., Luan S., **Lemaux P.G.** 2013. The Molecular Toolkit of the Primordial Plant: Insights from the CBL-CIPK Network. Annual Meeting American Society of Plant Biologists, Providence RI July 20-24, 2013. P24032.

- Owiti J., Li R., Wintz H-C., Meng L., Lewis E., Nim N., Christiansen M., Melis T., Jansson C., **Lemaux P.G.** 2014. Attaining Homoplasmy in Tobacco Chloroplast Transformants. Annual Meeting Western American Society of Plant Biologists, Santa Clara CA. May 4, 2014.
- Meng L., Owiti J., Lewis E., Nim N., **Lemaux P.**, Melis T., Jansson C. 2014. Installation of Cyanobacterial Alkane Biosynthesis Pathways in Tobacco Chloroplasts for Foliar Production of Hydrocarbon Fuels. Annual Meeting Western American Society of Plant Biologists, Santa Clara CA. May 4, 2014.
- Kleist, T.J., Perera, A.M., Madera, M.A., Luan, S., Lemaux, P.G. 2015. Last of a Dying Brood: Positive Regulators of Stress-Induced Asexual Propagule Formation in *Physcomitrella patens* Identified by Gain-of-Function Approach. Midwest Plant Cell Biology Meeting, Madison WI. June 16-19, 2015.
- Perera, A.M., Kleist, T.J., Madera, M.A., Luan, S., Lemaux, P.G. 2015. Calcium-regulated Components of the Plant-Microbe SYM Pathway Govern Abiotic Stress Responses in the Moss, *Physcomitrella patens*. Midwest Plant Cell Biology Meeting, Madison WI. June 16-19, 2015.
- Madera, M.A., Tian, W., Kleist, T.J., Perera, A.M., Hou, C., Kim, B-G., Lan, W-Z., Lemaux, P.G., Luan, S. Calcium-regulated Potassium Uptake (CaRP) in Land Plants: Fishing for Mechanistic Insights. Midwest Plant Cell Biology Meeting, Madison WI. June 16-19, 2015.
- Bregitzer P, Singh J, Lemaux PG, Brown R, Singh S, Tan H-Q. 2016. Transposon Tagging Resources in *Hordeum vulgare*. 12th International Barley Genetics Symposium. University of Minnesota. June 26-30, 2016
- Lemaux, P.G., Grafton-Cardwell, B., Stelinski L. 2017. Resources for Reaching Out to Growers and End-users on Approaches to Combating Citrus Greening Disease. *5th International Research Conference on Huanglongbing. Orlando FL. March 14-17, 2017.*