

**ANN L.T. POWELL**

Professional Research Biochemist  
Department of Plant Sciences, Plant Reproductive Bldg.  
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### **EDUCATION AND DEGREES**

Pomona College, Claremont CA 1967-1969  
Stanford University, Stanford, CA 1969-1971 A.B., Biological Sciences, with Honors  
University of Washington, Seattle, WA 1971-1976 Ph.D., Biochemistry (Advisor: M.P. Gordon, Ph.D.)

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### **RESEARCH INTERESTS**

*Regulation and mechanisms of fleshy fruit development and ripening; regulation and physiology of chloroplast formation in fruit; molecular biology of plant-pathogen interactions; heterologous gene expression in plants; biochemistry of defense and hormone-regulated genes in plants.*

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### **POST-GRADUATE POSITIONS**

2011-present Professional Research Biochemist, Dept. of Plant Sciences, UC Davis  
2006-2011 Associate Research Biochemist, Dept. of Plant Sciences, UC Davis  
1994- 2006 Assistant Research Biochemist, Dept. of Vegetable Crops, UC Davis  
1991-1994 Postgraduate Researcher, Dept. of Vegetable Crops, University of California, Davis.  
(Advisor: A.B. Bennett, Ph.D.)  
1994 Postgraduate researcher, Dept. of Agronomy and Range Science, UC Davis. (Advisor:  
T.A. Wilkins, Ph.D.)  
1988-1990 Sr. Fellow, Friedrich Miescher Institute, Basel, Switzerland. (Advisor: F. Meins, Ph.D.)  
1979-1987 Research Associate, Dept. of Biochemistry, University of Washington, Seattle. (Advisor:  
M.P. Gordon, Ph.D.)  
1976-1979 Postdoctoral Fellow, Dept. of Viral Oncology, University of Chicago, Chicago.  
(Advisor: E. Kieff, M.D., Ph.D.)

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### **HONORS AND AWARDS**

UC Davis Academic Federation Award for Excellence in Research	2013
Scientific Organizing Committee, International Botrytis Symposia	2010, 2013
Visiting Professor, Kasetsart University, Thailand	2012
Visiting Professor, University of Milan	2009
Research Planning Grant, National Science Foundation	1993
American Cancer Society Research Award, Institutional Research Grant Funds	1979, 1980
National Cancer Institute Postdoctoral Research Fellowship Award	1977-1979
Stanford University, Honors in Biological Sciences Thesis	1971
Cap and Gown Society, Stanford University women's honorary society, election	1971
National Science Foundation Summer Fellowships	1968, 1969

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### **PROFESSIONAL MEMBERSHIPS**

International Society for Molecular Plant-Microbe Interactions, American Society of Plant Biologists,  
Association of Women in Science

## MEMBERSHIPS

International Society for Molecular Plant-Microbe Interactions  
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## PROFESSIONAL ACTIVITIES

Analyst and assistant, Plant Sciences Strategic Planning Committee in the College of Agriculture and Environmental Sciences, UC Davis, September, 1996-December, 1997.  
Member, Department of Vegetable Crops, UC Davis, Teaching Evaluation and Student Affairs Committee 2000-2004; Picnic Day Committee 1998-2002  
Member (2008-2010), vice chair (2009-2010) Academic Federation Committee on Research, UCD  
Scientific advisory board member, International Botrytis Symposium, June 2010, June 2013  
Volunteer lecturer, Freshman Seminar on Plant Research at UC Davis, 1996-1999  
Volunteer lecturer, Plant Biology Graduate Group Molecular Techniques Survey Class, UCD, 1998  
Volunteer lecturer, Topics in Plant Biotechnology Research, Biological Sciences 1C, UCD, Spring 2001  
Volunteer lecturer, Plant Biology 298 (Seminar Topics), Spring 2006  
Volunteer lecturer, Plant Biology (Biotechnology) 188 (Undergraduate Research: Proposal Writing), UCD, Spring 2002-07  
Lecturer, Plant Biology (Biotechnology) 161B (Plant genetics and biotechnology laboratory), UCD, Winter 2003-5 (volunteer – 2003, appointed part-time 2004), Postharvest course (2000-present)  
Member, Plant Biology Graduate Group, Univ. of California, Davis, April, 2004 – present  
Member, Plant Biology Graduate Group, Awards Committee, UC Davis, 2006-07  
Reviewer (1998-2013), *Plant Physiology*, *Journal of Biological Chemistry*, *Plant Molecular Biology*, *Planta*, *Journal of Environmental Horticulture*, *Molecular Plant Microbe Interactions*, *Plant Science*, *NSF*, *USDA*, *BARD*

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## COMMUNITY ACTIVITIES

Member and volunteer, Friends of Mondavi Center, UC Davis	2009-present
President and board member, Sacramento Stanford Alumni Association	1996-2005
Chairperson, Annual Stanford Faculty Speaker Colloquium	1996-2005
Host, high school foreign exchange students	1997-1998; 1999-2002
President, Davis Sr. High School Orchestra Parents' Association	1996-1999
Chairperson, Emerson Jr. High School Careers Day	1995
Presenter, American Women in Science program for elementary school girls	1989, 1995

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## PUBLICATIONS

### *Peer reviewed publications*

1. Blanco-Ulate B, Vincenti E, **Powell ALT**, Cantu, D. 2013. Tomato transcriptome and mutant analyses suggest a role for plant stress hormones in the interaction between fruit and *Botrytis cinerea*. *Frontiers in Plant Sciences* published 14 May 2013.
2. Blanco-Ulate B, Allen G, **Powell ALT**, Cantu D. 2013. Draft genome sequence of *Botrytis cinerea* *BcDWI*, inoculum for noble rot of grape berries. *Genome Announc.* 1(3):e00252-13. doi:10.1128/genomeA.00252-13.
3. Wang H, Liu G, Li C, **Powell ALT**, Reid MS, Jiang C-Z. 2013. Defence responses regulated by jasmonate and delayed senescence caused by ethylene receptor mutation contribute to the tolerance of petunia to *Botrytis cinerea*. *Molecular Plant Pathology* 14: 453–469.
4. **Powell AL**, Nguyen CV, Hill T, Cheng KL, Figueroa-Balderas R, Aktas H, Ashrafi H, Pons C, Fernández-Muñoz R, Vicente A, Lopez-Baltazar J, Barry CS, Liu Y, Chetelat R, Granell A, Van Deynze A, Giovannoni JJ, Bennett AB. 2012. *Uniform ripening* encodes a *Golden 2-like* transcription factor regulating tomato fruit chloroplast development. *Science* 336:1711-1715.
5. Shah P, Gutierrez-Sanchez G, **Powell, ALT**, Orlando R, Bergmann C. 2012. A proteomic analysis of ripening tomato fruit infected by *Botrytis cinerea*. *J Proteome Research* 11:2178-2192.
6. Haroldsen V, Szczerba M, Aktas H, Lopez-Baltazar J, Odias MJ, ChiHam C, Labavitch JM, Bennett AB, **Powell ALT**. 2012. Delivery of nucleic acids and proteins from grafted rootstocks for pathogen and pest control. *Frontiers in Plant Sciences* 3:39. [http://www.frontiersin.org/plant-microbe\\_interaction/10.3389/fpls.2012.00039/abstract](http://www.frontiersin.org/plant-microbe_interaction/10.3389/fpls.2012.00039/abstract); doi: 10.3389/fpls.2012.00039
7. Blanco-Ulate B, Cantu D, Wang H, Bennett AB, Labavitch JM, **Powell ALT**. 2011. Modifications in tomato fruit ripening alter susceptibility to the pathogenic fungus *Botrytis cinerea*. *Acta Horticulturae* 906:161-170.
8. Cantu D, Greve LC, Labavitch JM, **Powell ALT**. 2009. Characterization of the cell wall of the ubiquitous plant pathogen *Botrytis cinerea*. *Mycological Research* 113:1396-1403.
9. Cantu D, Blanco-Ulate B, Yang L, Labavitch JM, Bennett AB, and **Powell ALT**. 2009. Ripening regulated susceptibility of tomato fruit to *Botrytis cinerea* requires *NOR* but not *RIN* or ethylene. *Plant Physiol.*150:1434-1449.
10. Cantu D, Vicente AR, Labavitch JM, Bennett AB, **Powell ALT**. 2008. Strangers in the matrix: plant cell wall and pathogen susceptibility. *Trends in Plant Sciences.*11:610-617.
11. Celorio-Mancera M de la P, Allen ML, **Powell AL**, Ahmadi H, Salemi MR Phinney,BS, Shackel, KA, Greve, LC, Teuber, LR, Labavitch, JM. 2008. Cloning and identification of western tarnished plant bug (*Lygus hesperus*) polygalacturonases secreted during feeding. *Arthropod Plant Interactions* 2:215-225.
12. Cantu D, Vicente AR, Greve LC, Dewey FM, Bennett AB, Labavitch JM and **Powell ALT**. 2008. The intersection between cell wall disassembly, ripening and fruit susceptibility to *B. cinerea*. *Proc. Natl. Aca. Sci. USA.* 105: 859-864.
13. Cantu D, Vicente AR, Greve LC, Labavitch JM, **Powell ALT**. 2007. Genetic determinants of textural modifications in fruits and role of cell wall polysaccharides and defense proteins in the protection against pathogens. *Fresh Produce* 1:1-10.

14. Vicente AR, **Powell A**, Greve LC, Labavitch JM. 2007. Cell wall disassembly events in boysenberry (*Rubus idaeus* L. x *Rubus ursinus* Cham. & Schldl.) fruit development. *Functional Plant Biology* 34:614-623.
15. Vicente AR, Ortugno C, Rosli H, **Powell Ann LT**, Greve C, Labavitch J. 2007. The temporal sequence of cell wall disassembly events in developing fruits: 2. Analysis of blueberry. *J Agric. Food Chem.* 55:4125-30.
16. Vicente AR, Ortugno C, **Powell Ann LT**, Greve C, Labavitch JM. 2007. The temporal sequence of cell wall disassembly events in developing fruits: 1. Analysis of raspberry. *J Agric. Food Chem.* 55:4119-4124.
17. Vicente, Ariel, Civello, Marcos, Martínez, GA, **Powell, ALT**, Labavitch, JML, Chaves Alicia. 2005. Control of postharvest spoilage in soft fruit. *Stewart Postharvest Review Journal*. 1: 1-11. ([http://www.stewartpostharvest.com/December\\_2005/Vicente.pdf](http://www.stewartpostharvest.com/December_2005/Vicente.pdf)).
18. Rousseaux MC, Jones C, Adams D, Chetelat R, Bennett A, **Powell,A**. 2005. Genetic analysis of ascorbic acid, phenolic and antioxidant fruit QTL in *Lycopersicon pennellii*. *Theoretical and Applied Genetics* 111:1396-1408.
19. Agüero C B., Uratsu S L, Greve LC, **Powell ALT**, Labavitch JM, Meredith CP, Dandekar AM. 2005. Evaluation of tolerance to Pierce's Disease and Botrytis in transgenic plants of *Vitis vinifera* L. expressing the pear PGIP gene. *Mol. Plant Path.* 6:43-51.
20. D'hallewin G, Schirra M, **Powell ALT**, Greve LC, Labavitch JM. 2004. Properties of a polygalacturonase-inhibiting protein from 'Oroblanco' grapefruit. *Physiologia Plantarum* 120:395-404.
21. **Powell ALT**, Kalamaki MS, Kurien PA, Gurrieri S, Bennett AB. 2003. Simultaneous transgenic suppression of *LePG* and *LeExpI* influences fruit texture and juice viscosity in a fresh market tomato variety. *J. Agricultural and Food Chemistry* 51:7450-7455.
22. Kalamaki MS, **Powell ALT**, Struijs K, Labavitch, JM, Reid DS, Bennett, AB. 2003. Transgenic over-expression of expansin influences particle size distribution and improves viscosity of tomato juice and paste. *J. Agricultural and Food Chem.* 51:7465-7471.
23. Thornburg, R, Carter C, **Powell A**, Horner HH, Rizhsky L, Mittler R. 2003. A major function of the nectary gland is plant defense against microbial attack. *Plant Syst. Evol.* 238:211-218.
24. Gurusinge S., **Powell ALT**, Bradford KJ. 2002. Enhanced expression of BiP is Associated with treatments that extend storage Longevity of primed tomato seeds. *J. Amer. Soc. Hort. Sci.* 127 (4): 528-534.
25. **Powell ALT**, van Kan J, ten Have A, Visser J, Greve LC, Bennett AB, Labavitch JM. 2000. Transgenic expression of pear PGIP in tomato limits fungal colonization. *Mol. Plant Microbe Interactions* 13:942-950.
26. Civello PM, **Powell A**, Sabehat A, Bennett AB. 1999. An expansin gene expressed in ripening strawberry fruit. *Plant Physiol.* 121:1-7.
27. Kanayama Y, Granot D, Dai N, Petreikov M, Schaffer A, **Powell A**, Bennett AB. 1998. Tomato fructokinases exhibit differential expression and substrate regulation. *Plant Physiol.* 117:85-90.
28. Stotz HU, Contos JA, **Powell ALT**, Bennett AB, Labavitch JM. 1994. Structure and expression of an inhibitor of fungal polygalacturonases from tomato. *Plant Mol. Biol.* 25:607-617.
29. Stotz HU, **Powell ALT**, Damon SE, Greve LC, Bennett AB, Labavitch JM. 1993. Molecular characterization of a polygalacturonase inhibitor from *Pyrus communis* L. cv Bartlett. *Plant Physiol.* 102:133-138.

30. Kanemoto R, **Powell ALT**, Akiyoshi DE, Regier DA, Kerstetter RA, Nester EW, Hawes MC, Gordon MP. 1989. Nucleotide sequence and analysis of the plant-inducible locus *pinF* from *Agrobacterium tumefaciens*. J. of Bacteriology 171:2506-2512.
31. Amasino RM, **Powell ALT**, Gordon MP. 1984. Changes in T-DNA methylation and expression are associated with phenotypic variation and plant regeneration in a crown gall tumor line. Mol. Gen Genet. 197:437-446.
32. Thomashow MF, Nutter R, Postle K, Chilton MD, Blattner FR, **Powell A**, Gordon MP, Nester EW. 1980. Recombination between Higher Plant DNA and the Ti-plasmid of *Agrobacterium tumefaciens*. Proc. Natl. Acad. Sci. USA. 77:6448-6452.
33. King W, **Thomas-Powell AL**, Raab-Traub N, Hawke M, Kieff E. 1980. Epstein-Barr Virus RNA. V. Viral RNA in a restringently infected growth-transformed cell line. J. Virol. 36:506-518.
34. Kieff E, Given D, **Powell A**, King W, Dambaugh T, Raab-Traub N. 1979. Epstein-Barr Virus: Structure of the viral DNA and analysis of viral RNA in infected cells. Biochim. Biophys. Acta Reviews on Cancer 560:355-373.
35. **Powell ALT**, King W, Kieff E. 1979. Epstein-Barr Virus Specific RNA. III. Mapping of DNA encoding viral RNA in restringent infection. J. Virol. 29:261-274.
36. **Powell ALT**, Gordon MP, Caspary WJ, Greene JJ, Ts'o POP. 1978. Studies on spin labeled ribonucleic acids encapsulated by viral proteins. Nucleic Acid Research 5:3977-3992.
37. Kidson D, **Thomas AL**, Cohen P. 1970. Interactions of hormonal steroids in nucleic acids: III. Role of polymer structure. Biochemistry 9:1571-1576.

#### Solicited publications

1. Stotz, Henrik U., Elad, Yigal, **Powell, Ann L.T.**, Labavitch, John M. 2004. Chapter 20: "Innovative biological approaches to *Botrytis* suppression." In: *Botrytis spp.: A comprehensive treatise*. Kluwer Academic Publishers, The Netherlands. (Y. Elad, B. Williamson, P. Tudzynski, N. Delen, Eds.). Pp.369-392.
2. **Powell, A.L.T.** and A.B. Bennett. 2002. Chapter: "Tomato" In: *Fruit and Vegetable Biotechnology*. Woodhead Publishing Ltd., Cambridge, UK (Victoriano Valpuest, Ed.).
3. Labavitch, J.M., Greve, L.C., **Powell, A.L.T.**, Bennett, A.B. and Sharrock. K.R. 1997. "Polygalacturonase inhibitor proteins - do they contribute to fruit defense against fungal pathogens?" In: *Disease resistance in fruit*. ACIAR Proceedings No. 80. (Johnson, G.I., Johce, D.C. and Highley, E., eds.).
4. **Powell, A.L.T.**, Stotz, H.U., Labavitch, J.M. and Bennett, A.B. 1995. "Glycoprotein Inhibitors of Fungal Polygalacturonases." In: *Advances in Molecular Genetics of Plant-Microbe Interactions, Vol. III*. Kluwer Academic Publishers, Boston, MA (M.J. Daniels, J.A., Downie, A.E. Osborne, Eds.) pps. 399-402.
5. **Powell, A.L.T.** and Gordon, M.P. 1989. "Plant Tumor Formation." In: *The Biochemistry of Plants: A Comprehensive Treatise*. Vol. 15, Acad. Press, Orlando, Fl. (A. Marcus, Ed.) pp 617-651.
6. Gordon, M., Garfinkel, D., Klee, H., Knauf, V., Kwok, W., Lichtenstein C., McPherson J., Montoya, A., Nester, E., O'Hara, P., **Powell, A.**, Ream L.W., Simpson, R., Taylor, B., and White, F. 1982. "Crown Gall - Nature's Genetic Engineer." In: *From Gene to Protein: Translation into Biotechnology*, Acad. Press, Inc., Orlando, Fl., pp.105-125.

7. Keiff, E., Raab-Traub, N., Given, D., King, W., **Powell, A.**, Pritchett, R. and Dambaugh, T. 1978. "Mapping of Putative Transforming Sequences of EBV DNA." In: *Oncogenesis and Herpesviruses III, Part I*, F. Rapp and G. de The (Eds.), I.A.R.C., Lyon, pp 527-552.

### **Reports**

1. Taylor, B. and **A. Powell**. 1982. Isolation of plant DNA and RNA. *Focus (BRL)* 4:4-6.

### **Published Abstracts**

1. **Powell, A.T.**, Gordon, M. L. Goetsch, B. Byers, W. Caspary and P. Ts'o. 1976. Spin labeled RNAs (RNA<sup>SL</sup>) as probes of viral RNA structure. Biophysical Society, Seattle, WA.
2. Kieff, E., N. Raab-Traub, R. Pritchett, **A. Powell**, T. Orellana, W. King. D. Given and T. Dambaugh. 1977. Identification of putative "transformation" DNA sequences of EBV. Third Int'l Symposium on Oncogenesis and Herpesviruses, Cambridge, MA.
3. Kieff, E., D. Given, **A. Powell**, N. Raab-Traub, W. King and T. Dambaugh. 1978. Structure and transcription of the dNA of Epstein-Barr virus. Fourth Int'l Congress for Virology, The Hague, The Netherlands
4. Kieff, E., D. Given, **A. Powell**, N. Raab-Traub, W. King and T. Dambaugh. 1978. Structure of EBV DNA and mapping of RNA from transformed cells and tumor tissue. Herpes Virus Workshop, Cambridge, UK.
5. **Powell, A.L.T.**, R. Amasino and M.P. Gordon. 1983. Analysis of T-DNA containing tobacco plants regenerated from a crown gall tumor line. American Society of Plant Physiologists. Fort Collins, CO.
6. Meyer, A.D., R.M Beffa, **A. Powell** and F. Meins. 1992. Enhanced auxin sensitivity of genetically cytokinin habituated tobacco plants and tissues. Union of Swiss Geneticists and Experimental Biologists, Basel, Switzerland.
7. Stotz, H.U., **A.L.T. Powell**, S. Damon, L.C. Greve, A.B. Bennett and J.L. Labavitch. 1992. Molecular characterization of a polygalacturonase inhibitor from pear. Sixth Int'l Symposium on Molecular Plant-Microbe Interactions. Seattle, WA.
8. **Powell, A.L.T.**, H. Stotz, G. d'Hallewin, J. Contos, J.M. Labavitch and A.B. Bennett. 1992. Pear and tomato polygalacturonase inhibitor proteins: Analysis and expression in transgenic tomato. *J. of Cell Biochem., Suppl. 18A (Keystone Symposium on Improved Crop and Plant Products through Biotechnology)*. Keystone, CO.
9. **Powell, A.L.T.**, G. d'Hallewin, B.D. Hall, H. Stotz, J.M. Labavitch, and A.B. Bennett. 1994. Glycoprotein inhibitors of fungal polygalacturonases: Expression of pear PGIP improves resistance in transgenic tomatoes. Fourth Int'l Congress of Plant Molecular Biology, Amsterdam, The Netherlands.
10. **Powell, A.**, H. Stotz, C. Greve and J. Labavitch. 1992. Structure and expression of a plant glycoprotein inhibitor of fungal polygalacturonase. Second Annual CEPRAP retreat, Fallen Leaf Lake, CA.
11. **Powell, A.L.T.**, G. d'Hallewin, B.D. Hall, H. Stotz, J.M. Labavitch and A.B. Bennett. 1994. Glycoprotein inhibitors of fungal polygalacturonase: expression of pear PGIP improves transgenic tomato resistance to fungi. Seventh Int'l Symposium on Molecular Plant-Microbe Interactions. Edinburgh, Scotland.
12. Stotz, H.U., C.W. Bergmann, **A.L.T. Powell**, J.J. Contos, P. Albersheim, A.G. Darvill and J.M. Labavitch. 1994. Structural and function comparison of polygalacturonase inhibitor proteins

from pear, tomato and bean. Seventh Int'l Symposium on Molecular Plant-Microbe Interactions. Edinburgh, Scotland.

13. **Powell, A.L.T.**, G. d'Hallewin, B.D. Hall, H. Stotz, J.M. Labavitch and A.B. Bennett. 1994. Glycoprotein inhibitors of fungal polygalacturonases expression of pear PGIP improve resistance in transgenic tomatoes. American Society Plant Physiologists, Portland, OR.
14. **Powell, A.L.T.**, G. d'Hallewin, B.D. Hall, H. Stotz, J.M. Labavitch and A.B. Bennett. 1994. Glycoprotein inhibitors of fungal polygalacturonases: expression of pear PGIP improves resistance of transgenic tomato to fungi. Gordon Conference on Postharvest Physiology, Holderness School, Plymouth, NH.
15. Stotz, H.U., C.W. Bergmann, **A.L.T. Powell**, J.J. Contos, P. Albersheim, A.G. Darvill and J.M. Labavitch 1994. Structural and function comparison of polygalacturonase inhibitor proteins from pear, tomato and bean. Gordon Conference on Postharvest Physiology, Holderness School, Plymouth NH.
16. **Powell, A.L.T.**, G. d'Hallewin, H. Stotz, K. Sharrock, J.M. Labavitch and A.B. Bennett. 1994. PGIP- Its role in colonization of fruit by soft-rot fungi secreting polygalacturonases. Fourth Annual CEPRAP Retreat, Fallen Leaf Lake, CA.
17. Kanayama, Y., Y. Kubo, **A.L.T. Powell** and A.B. Bennett. 1997. Differential expression of fructokinase genes and the modification of tomato fruit sugar composition by antisense engineering. UC Davis Biotechnology Training Grant Annual Retreat, Napa, CA.
18. Kanayama, Y., Y. Kubo, **A.L.T. Powell** and Bennett, Alan B., 1997. Differential expression of fructokinase genes and the modification of tomato fruit sugar composition by antisense engineering. Plant Biology '97, Vancouver, B.C., Canada.
19. Bennett, A., **A.L.T. Powell**, Y. Kanayama, D. Granot and A. Schaffer. 1998. Differential expression and substrate regulation of two fructokinases. Plant Cell Biology, Keystone Symposium, Taos, NM.
20. **Powell, A.L.T.**, K. Sharrock, S. Keates, V. Franceschi, A.B. Bennett and J.M. Labavitch. 1998. Over-expression of a small LRR protein, PGIP, produces limited fungal PG inhibition. Plant Cell Biology, Keystone Symposium, Taos, NM.
21. **Powell, A.L.T.**, J.A.L. van Kan, K. Sharrock, L.C. Greve, A. Bennett and J. Labavitch. 1999. Expression of transgenic PGIP in tomato produces a glycoprotein inhibiting fungal PG isoforms and reducing fungal growth. Ninth Int'l. Congress of Molecular Plant-Microbe Interactions. Amsterdam, The Netherlands.
22. Kalamaki, M., A. **Powell, A.** Bennett, and D. S. Reid. 2002. Effect of suppressed levels of tomato fruit polygalacturonase (PG) and expansin (EXP) on the viscosity of tomato concentrates. Institute of Food Technologists, June, 2002, Anaheim CA.
23. **Powell, Ann L. T.** , Karin Struijs, Philip A. Kurien, Mary Kalamaki, Sergio Gurrieri, Adnan Sabehat, Alan Bennett. 2002. Alterations of fruit texture by ripening regulated expansins and polygalacturonases. Gordon Research Conference on Postharvest Physiology, August, 2002, Mt. Holyoke, MA.
24. Lurie, S., **Powell, A.L.T.**, Dewey, F.M., Martin, R., Labavitch, J.M., Bennett, A.B. 2003. Expression of endogenous cell wall enzymes in tomato fruit affects decay development. International Society of Molecular Plant Microbe Interactions. July 2003, St. Petersburg, Russia.
25. Yang, L., **Powell Ann LT**, Lurie S, Labavitch JM. 2004. Investigation of the roles of polygalacturonase-inhibiting proteins in plant defense against pathogens. Association of Plant Biologists, July 2004, Orlando, FL.

26. Stotz, Henrik U., **Powell Ann LT**, Labavitch JM. 2004. Innovative biological approaches to Botrytis suppression. October 2004, XIII Botrytis Symposium, Antalya, Turkey.
27. Lurie S, Yang L, An H-j, **Powell Ann LT**, Lebrilla CB, Labavitch JM. 2004. Do pectin-derived oligosaccharides participate in the information exchange that influences tomato responses to *Botrytis cinerea*? October 2004, XIII Botrytis Symposium, Antalya, Turkey.
28. **Powell Ann LT**, Yang L, Lurie S, Labavitch JM. 2004. Gene expression changes of tomato fruit in response to *Botrytis cinerea*. October, 2004. XIII Botrytis Symposium, Antalya, Turkey
29. **Powell Ann LT**, Yang L, Lurie S, Labavitch JM. 2005. Polygalacturonase-inhibiting proteins and gene expression in tomato fruit in response to *Botrytis cinerea*. International Society of Molecular Plant Microbe Interactions. December 2005, Merida, Mexico.
30. **Powell, Ann LT**, Cantu D, Yang L, Lurie S, Labavitch, JM. 2006. Gene expression in tomato fruit in response to *Botrytis cinerea*. Postharvest Gordon Research Conference, July 2006, Connecticut College, New London CT.
31. Vicente AR, **Powell ALT**, Greve LC, Bennett, AB, Labavitch JM. 2007. Effect of simultaneous overexpression of polygalacturonase and expansin on *rin* tomato softening. American Society of Plant Biologists, Western Section, Davis, CA, February 2 -3, 2007.
32. Cantu D, Vicente, AR, Dewey FM, Bennett, AB, Labavitch JM, **Powell, ALT**. 2007. The simultaneous suppression of tomato polygalacturonase and expansin reduces the susceptibility of ripe fruit to *Botrytis cinerea*. American Society of Plant Biologists, Western Section, Davis, CA, February 2-3, 2007.
33. Cantu, D, Vicente, AR, Dewey, FM, Bennett, AB, Labavitch, JM and **Powell, ALT**. 2007. Reduced expression of polygalacturonase and expansin alters cell wall composition and structure and decreases the susceptibility of ripe tomato fruit to *Botrytis cinerea*. International Society of Molecular Plant Microbe Interactions, July 2007, Sorrento Italy.
34. Celorio-Mancera, M, Greve, LC, Roper, C, Aguero, C, Dandekar, A, Kirkpatrick, B, **Powell, ALT** and Labavitch, JM. 2007. Plant inhibitors that are effective against polygalacturonases (PGs) produced by *Botrytis cinerea* inhibit PGs produced by bacteria and insects. 14<sup>th</sup> International Botrytis Symposium, October 21-26, 2007, Cape Town, South Africa.
35. **Powell, ALT**, Cantu, D, Vicente, AR, Dewey, M, Bennett, AB and Labavitch, JM. 2007. The susceptibility of ripe tomato fruit to *Botrytis cinerea* is influenced by the structure and composition of the extracellular plant cell wall. 14<sup>th</sup> International Botrytis Symposium, October 21-26, 2007, Cape Town, South Africa.
36. Cantu, D., Blanco-Ulate, B., Shah, P., Gutierrez-Sanchez, G., Bergmann, C., Bennett, A.B., Labavitch, J.M., **Powell, A.L.T.** 2008. Fruit cell wall architecture and fungal pathogen susceptibility. 19<sup>th</sup> New Phytologist Symposium; Physiological sculpture of plants: new visions and capabilities for crop development, Mount Hood, Oregon 17-20 September, 2008.
37. **Powell ALT**, Cantu D, Blanco-Ulate B, Gutierrez-Sanchez G, Shah P, Bennett AB, Labavitch JM, Orlando R, Bergmann C. 2009. Transcriptomic, proteomic and mutant analyses demonstrate that tomato fruit susceptibility to *Botrytis cinerea* depends on the activation and progression of ripening. International Society Molecular Plant Microbe Interactions, Annual Meeting, 19-23 July 2009, Quebec City, Canada.
38. Blanco-Ulate B, Cantu D, Wang H, Bennett AB, Labavitch JM, **Powell ALT**. 2009. Modifications in Tomato Fruit Ripening alter Susceptibility to the Pathogenic Fungus *Botrytis cinerea*. ISHS, First International Conference on Postharvest and Quality Management of Horticultural Products of Interest for Tropical Regions, 20-23 July 2009, San Jose, Costa Rica.



39. **Powell ALT**, Cantu D, Blanco-Ulate B, Dewey FM, Bennett AB, Labavitch JM. 2009. Evaluations of *Botrytis cinerea* infections of ripening tomato fruit. American Phytopathology Association Annual Meeting, 1-5 August 2009, Portland, Oregon.
40. Cantu D, Blanco-Ulate B, Lam K, Gutierrez, G, Shah P, Bennett A, Labavitch J, Carl Bergmann C, and **Powell A**. 2010. Ripening and Rotting: Tomato fruit ripening and susceptibility to *Botrytis cinerea*. XV International Botrytis Symposium, 30 May-4 June, 2010, Cadiz, Spain
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