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EDUCATION:

1976 - 1982 Ph.D., Biochemistry, Brandeis University
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Thesis Title: "The Energetics of Osmotic Shock-Sensitive Active Transport in *Escherichia coli*: Studies in Whole Cells and Isolated Membrane Vesicles"

1972 - 1976 B.S., Biological Sciences, University of Lowell (present name: University of Massachusetts at Lowell)

POSITIONS AND APPOINTMENTS:

July 1996 - present: Professor
Department of Plant and Soil Sciences
University of Kentucky

August 1990 – July 2018: Director of Graduate Studies
Plant Physiology Graduate Program
University of Kentucky

July 1990 - June 1996: Associate Professor
Department of Agronomy
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July 1985 - June 1990: Assistant Professor
Department of Agronomy
University of Kentucky

June 1982 - May 1985: Postdoctoral Fellow
Laboratory of Plant Molecular Biology
The Rockefeller University
Advisor: Dr. Nam-Hai Chua

September 1981 - May 1982: Postdoctoral Research Associate
Department of Cell Physiology
Boston Biomedical Research Institute
Advisor: Dr. Jen-shiang Hong

September 1975 - May 1976: Teaching Assistant
Department of Biological Sciences
University of Lowell

HONORS AND AWARDS:

Klein Fellowship, Brandeis University, July 1979 - June 1980
American Cancer Society, Postdoctoral Fellowship awarded, July 1982
University of Kentucky Special Faculty Initiative Grant, 1988-1991; $7500 total for 3 years
Poster discussion session organizer, RNA Processing Poster Session, Third International Congress of Plant Molecular Biology, Tucson, AZ, October 6-12, 1991
Invited to review mRNA 3' end formation in plants for the 45th Volume of Annual Review of Plant Physiology and Plant Molecular Biology (publication date - 1994)
Invited to review mRNA 3' end formation in plants for *Plant Physiology* (publication date - November 1997)
1998 Thomas Poe Cooper Award for Outstanding Research In Agriculture
Wethington Award (University of Kentucky), May 2009, May 2010, May 2011, May 2012, May 2014, May 2015, May 2016, May 2017
University Research Professor, University of Kentucky, May 2016
Elected Fellow, American Association for the Advancement of Science, November 2017

PUBLICATIONS

REFEREED RESEARCH ARTICLES:

1. Hong, J-s., Hunt, A. G., Masters, P. S., and Lieberman, M. A. (1979). Requirement of acetyl phosphate for the binding protein-dependent transport systems in *Escherichia coli*. *Proc Natl Acad Sci U S A 75*, 1213-1217.
2. Hunt, A. G. and Hong, J-s. (1980). A micromethod for the determination of acetyl phosphate and acetyl coenzyme A. *Analytical Biochemistry 108*, 290-294.
3. Hunt, A. G. and Hong, J-s. (1981). The reconstitution of binding protein-dependent active transport of glutamine in isolated membrane vesicles from *Escherichia coli*. *Journal of Biological Chemistry 256*, 11988-11991.
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7. Hunt, A. G., Chu, N. M., Odell, J. T., Nagy, F., and Chua, N.-H. (1987). Plant cells do not properly recognize animal gene polyadenylation signals. *Plant Molecular Biology 8*, 23-35.
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10. Hunt, A. G. (1988). Identification and characterization of cryptic polyadenylation sites in the 3' region of a pea ribulose-1,5-bisphosphate carboxylase small subunit gene. *DNA 7*, 329-336.
11. Domier, L. L., Franklin, K. M., Hunt, A. G., Rhoads, R. E., and Shaw, J. G. (1989). Infectious *in vitro* transcripts from cloned cDNA of the potyvirus, tobacco vein mottling virus. *Proceedings of the National Academy of Sciences USA 86*, 3509-3513.
12. Graybosch, R., Hellmann, G. M., Shaw, J. G., Rhoads, R. E., and Hunt, A. G. (1989). Expression of a potyvirus non-structural protein in transgenic tobacco. *Biochemical and Biophysical Research Communications 160*, 425-432.
13. Hunt, A. G. and MacDonald, M. (1989). Deletion analysis of the polyadenylation signal of a pea ribulose-1,5-bisphosphate carboxylase small subunit gene. *Plant Molecular Biology 13*, 125-138.
14. Berger, P., Hunt, A. G., Domier, L. L., Hellmann, G. M., Stram, Y., Thornbury, D., and Pirone, T. P. (1989). Expression in transgenic plants of a viral gene product which mediates insect transmission of potyviruses. *Proceedings of the National Academy of Sciences USA 86*, 8402-8406.
15. Maiti, I. B., Wagner, G. J., Yeargan, R., and Hunt, A. G. (1989). Inheritance and expression of the mouse metallothionein gene in tobacco: Impact on Cd tolerance and tissue Cd distribution in seedlings. *Plant Physiology 91*, 1020-1023.
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19. Hunt, A. G., Mogen, B., Chu, N. M., and Chua, N.-H. (1991). The SV40 small t intron is accurately and efficiently spliced in tobacco cells. *Plant Molecular Biology 16*, 375-380.
20. Maiti, I. B., Wagner, G. J., and Hunt, A. G. (1991). Light-inducible and tissue-specific expression of a chimeric mouse metallothionein cDNA in tobacco. *Plant Science 76*, 94-107.
21. MacDonald, M. H., Mogen, B., and Hunt, A. G. (1991). Characterization of the polyadenylation signal of the T-DNA-encoded octopine synthase gene. *Nucleic Acids Research 19*, 5575-5581.
22. Yang, J. and Hunt, A. G. (1992). Purification and characterization of a 70 kD polyadenylate-binding protein from pea (*Pisum sativum*). *Plant Physiology 98*, 1115-1120.

23. Yeargan, R., Maiti, I. B., Nielsen, M. T., Hunt, A. G., and Wagner, G. J. (1992). Tissue partitioning of Cd in transgenic tobacco seedlings and field plants expressing the mouse metallothionein I gene. *Transgenic Research 1*, 261-267.
24. Mogen, B. D., MacDonald, M. H., Leggewie, G., and Hunt, A. G. (1992). Several distinct types of sequence elements are required for efficient mRNA 3' end formation in a pea *rbcS* gene. *Molecular and Cellular Biology 12*, 5406-5414.
25. Brantley, J. D. and Hunt, A. G. (1993). The N-terminal protein of the polyprotein encoded by the potyvirus tobacco vein mottling virus is an RNA binding protein. *Journal of General Virology 74*, 1157-1162.
26. Maiti, I. B., Murphy, J. F., Shaw, J. G., and Hunt, A. G. (1993) Plants that express a potyvirus proteinase gene are resistant to virus infection. *Proceedings of the National Academy of Sciences USA 90*, 6110-6114.
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31. Li, Q. and Hunt, A. G. (1995) A near upstream element in a plant polyadenylation signal consists of more than six bases. *Plant Molecular Biology 28*, 927-934.
32. Das Gupta, J., Li, Q., Thomson, A. B., and Hunt, A. G. (1995) Characterization of a novel plant polyadenylate polymerase. *Plant Science 110*, 215-226.
33. Hong, Y., Levay, K., Murphy, J. F., Klein, P. G., Shaw, J. G., and Hunt, A. G. (1995) A potyvirus-encoded polymerase interacts with the viral coat protein and VPg in yeast cells. *Virology 214*, 159-166.
34. Murphy, J. F., Klein, P. G., Hunt, A. G., and Shaw, J. G. (1996) Replacement of the tyrosine residue that links a potyviral VPg to the viral RNA is lethal. *Virology 220*, 535-538.
35. Li, Q., Das Gupta, J., and Hunt, A. G. (1996) A plant poly(A) polymerase requires a novel RNA binding protein for activity. *Journal of Biological Chemistry 271*, 19831-19835.
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46. Dasgupta, S., Collins, G. B., and Hunt, A. G. (1998) Coordinated expression of multiple enzymes in different subcellular compartments in plants. *The Plant Journal 16*, 107-116.
47. Xu, D., Collins, G. B., Hunt, A. G., and Nielsen, M. T. (1999) Agronomic performance of transgenic burley tobaccos expressing the TVMV or AMV coat protein genes with or without virus challenges. *Crop Science 39*, 1195-1202.
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62. Hunt, A. G., Xu, R., Addepalli, B., Rao, S., Forbes, K. P., Meeks, L. R., Xing, D., Mo, M., Zhao, H., Bandyopathy, A., Dampanaboina, L., Marion, A., Von Lanken, C., and Li, Q. Q. (2008) Arabidopsis mRNA polyadenylation machinery: comprehensive analysis of protein-protein interactions and gene expression profiling. *BMC Genomics 9*, 220.
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65. Rao, S., Dinkins, R. D., and Hunt, A. G. (2009) Distinctive interactions of the *Arabidopsis* homolog of the 30 kD subunit of the cleavage and polyadenylation specificity factor (AtCPSF30) with other polyadenylation factor subunits. *BMC Cell Biology 10*, 51.
66. Meeks, L. R., Addepalli, B., and Hunt, A. G. (2009) Characterization of genes encoding poly(A) polymerases in plants: evidence for duplication and functional specialization. *PloS ONE 4*, e8082.
67. Bell, S. and Hunt, A. G. (2010) The Arabidopsis ortholog of the 77 kD subunit of the polyadenylation Cleavage Stimulatory Factor is an RNA binding protein. *FEBS Letters 584*, 1449-1454.
68. Addepalli, B., Limbach, P. A., and Hunt, A. G. (2010) A disulfide linkage in a CCCH zinc finger motif of an Arabidopsis CPSF30 ortholog. *FEBS Letters 584*, 4408-4412.
69. Wu, X., Liu, M., Downie, B., Liang, C., Ji, G., Li, Q. Q., and Hunt, A. G. (2011) Genome-wide landscape of polyadenylation in Arabidopsis provides evidence for extensive alternative polyadenylation. *Proc Natl Acad Sci U S A. 108*,12533-12538.
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71. Hunt, A. G., Xing, D., and Li, Q. Q. (2012) Plant polyadenylation factors: conservation and variety in the polyadenylation complex in plants. *BMC Genomics **13**, 64*.

72. Buonaccorsi, V., Peterson, M., Lamendella, G., Newman, J., Trun, N., Tobin, T., Aguilar, A., Hunt, A. G., Praul, C., Grove, D., Roney, J., and Roberts, W. (2013). Vision and change through the Genome Consortium on Active Teaching using Next-Generation Sequencing (GCAT-SEEK). (Letter to the editor). CBE-Life Sciences Education 13, 1-2.
73. Ma, L., Pati, P. K., Liu, M., Li, Q. Q., and Hunt, A. G. (2014) High throughput determination of polyadenylation sites in plants. *Methods 67,* 74-83.
74. Wu, X., Gaffney, B, Li, Q. Q., and Hunt, A. G. (2014) Genome-wide determination of poly(A) sites in Medicago truncatula: evolutionary conservation of alternative poly(A) site choice. *BMC Genomics 15,* 615.
75. Liu, M., Xu, R., Merrill, C., Von Lanken, C., Hunt, A. G., and Li, Q. Q. (2014) Integration of developmental and hormonal signals via a polyadenylation factor in Arabidopsis. *PloS ONE,* 9(12): e115779.
76. Chakrabarti, M., Dinkins, R. D., and Hunt, A. G. (2016) De novo transcriptome assembly and dynamic spatial gene expression analysis in red clover (Trifolium pratense). *The Plant Genom*e 9, published online March 11, 2016. doi:10.3835/plantgenome2015.06.0048.
77. Bell, S. A., Brown, A., Chen, S., and Hunt, A. G. (2016) Experimental genome-wide determination of RNA polyadenylation in Chlamydomonas reinhardtii. *PLoS ONE* 11: e0146107.
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80. Majee, M., Wu, S., Salaita, L., Gingerich, D., Dirk, L. M. A., Chappell J., Hunt, A. G., Vierstra, R., and Downie, A. B. (2017) The Genetic Structure in a misannotated locus positively influencing Arabidopsis Seed Germination is revealed using surrogate splicing. *Plant Gene* 10, 74-85.
81. Majee, M., Kumar, S., Kathare, P. K., Wu, S., Gingerich, D., Nayak, N. R., Salaita, L., Dinkins, R. D., Martin, K., Goodin, M., Dirk, L. M. A., Lloyd, T. D., Zhu, L., Chappell, J., Hunt, A. G., Vierstra, R., Huq, E., and Downie, A. B. (2018) A KELCH F-BOX Protein Positively Influences Seed Germination by Targeting PHYTOCHROME-INTERACTING FACTOR1. *Proc Natl Acad Sci U S A,* 115 (17), E4120-E4129.
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83. Chakrabarti, M., Dinkins, R. D., and Hunt, A. G. (2018) Genome-wide atlas of alternative polyadenylation in the forage legume red clover. *Scientific Reports* 8, 11379.
84. Azzouz-Olden, F., Hunt, A. G., and DeGrandi-Hoffman, G. (2018) Transcriptional response of honey bee (*Apis mellifera*) to differential nutritional status and Nosema infection. *BMC Genomics* 19, 628.
85. Stevens, A. T., Howe, D. K., and Hunt, A. G. (2018) Characterization of mRNA polyadenylation in the apicomplexa. *PLoS ONE* 13(8): e0203317.
86. Cao, J., Ye, C., Hao, G., Dabney-Smith, C., Hunt, A. G., and Li, Q. Q. (2019) Root Hair Single Cell Type Specific Profiles of Gene Expression and Alternative Polyadenylation Under Cadmium Stress. *Front Plant Sci.* 10:589.

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88. Soorni, A., Borna, T., Alemardan, A., Chakrabarti, M., Hunt, A. G., and Bombarely, A. (2019) Transcriptome Landscape Variation in the Genus Thymus. *Genes* 10(8), 620.

INVITED REVIEWS AND BOOK CHAPTERS:

1. Hunt, A. G. and Hong, J-s. (1981). The energetics of osmotic shock-sensitive transport in *Escherichia coli*. in Membranes and Transport: A Critical Review, Volume II (A. N. Martonosi, ed., Plenum, N. Y.).
2. Hunt, A. G. (1986) A micromethod for the measurements of acetyl phosphate and acetyl coenzyme A. *Methods in Enzymology 122*, 43-50.
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4. Hildebrand, D. F., Altschuler, M., Bookjans, G., Benzion, G., Hamilton-Kemp, T. R., Andersen, R. A., Rodriguez, J. G., Polacco, J. C., Dahmer, M. L., Hunt, A. G., Wang, X., and Collins, G. B. (1987) Transformational analysis of lipoxygenases. in The Metabolism, Structure, and Function of Plant Lipids (P. K. Stumpf, J. B. Mudd, and W. D. Nes, eds., Plenum Publishing Corporation, NY).
5. Shaw, J. G., Hunt, A. G., Pirone, T. P., and Rhoads, R. E. (1990) Organization and expression of potyviral genomes. in Viral Genes and Plant Pathogenesis (T. P. Pirone and J. G. Shaw, eds., Springer-Verlag, New York, NY), pp. 107-121.
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7. Hunt, A. G. (1994) Messenger RNA 3' end formation in plants. *Annual Review of Plant Physiology and Plant Molecular Biology 45*, 47-60.
8. Maiti, I.B. and Hunt, A. G. (1996) Genetically engineered resistance to potyviruses. in Technology Transfer of Plant Biotechnology. P. M. Gresshoff, ed., CRC Press, Boca Raton, FL. pp. 51-65.
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10. Hunt, A. G. and Messing, J. (1998) Messenger RNA 3' end formation in plants. in A Look Beyond Transcription: Mechanisms Determining mRNA Stability and Translation in Plants. Proceedings of the 19th UC-Riverside Annual Symposium on Plant Physiology. Riverside, CA 1997. pp. 29-39.
11. Hunt, A. G. and Maiti, I. B. (2001) Strategies for the expression of multiple foreign genes in plants as polycistronic constructs. *In Vitro Cellular and Developmental – Plant 37*, 313-320.
12. Hunt, A. G. (2007) Messenger RNA 3'-end formation and the regulation of gene expression. in Regulation of Gene Expression in Plants - The Role of Transcript Structure and Processing. (C. Bassett, ed., Springer). pp 101-122. ISBN: 978-0-387-35449-1.
13. Wang, W.-X., Gaffney, B., Hunt, A. G., and Tang, G. (2007) MicroRNAs (miRNAs) and Plant Development. in Encyclopedia of Life Sciences (John Wiley and Sons). doi: 10.1002/9780470015902.a0020106

14. Hunt, AG. (2008) Messenger RNA 3' End Formation in Plants. in Nuclear pre-mRNA Processing in Plants, Current Topics in Microbiology and Immunology 326 (M. Golovkin and ASN Reddy, eds., Springer-Verlag Berlin Heidelberg 2008), pp 151-177.
15. Addepalli B., Hunt AG. (2012) Diverse Roles of CCCH Zinc Finger Proteins in Stress and Plant Development Responses. In Zinc Fingers: Structure, Properties and Applications. R. Ciofani and L. Makrlik, eds. Nova Science Publishers. ISBN: 978-1-62100-310-6. pp. 121-140.
16. Hunt, A. G. (2012) RNA regulatory elements and polyadenylation in plants. *Front. Plant Sci.* 2,109.
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