
Biographical Sketch

Greene, Ruth

Education

INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
Trinity College, Dublin, Ireland	BA Honors)	1961-5	Biochemistry
Washington University, St. Louis	MA	1966-8	Botany
University of California, Davis	PhD	1968-72	Plant Physiology
University of California, Berkeley	Post-Doc	1973-75	Ken Sauer Lab
Cornell University	Post-doc	1975-77	Andre Jagendorf Lab

Professional Experience

Professor of Plant Physiology, Virginia Tech, 1998-present
Associate Professor of Plant Physiology, Virginia Tech, 1988-1998
Adjunct Assistant Professor of Plant Biology, Cornell, 1985-1988
Research Associate, Boyce Thompson Institute, Environmental Biology, Ithaca, NY.
1979-1988

Honors and Awards

National Science Foundation Career Advancement Award, 1992-94
National Research Service Award (NIH), 1975-77
National Institute of Health Postdoctoral Fellowship, 1973-74

Five Relevant Peer-Reviewed Publications (all NSF-sponsored)

1. Mane SP, Vasquez Robinet C, Ulanov A, Schafleitner R, Tincopa L, Gaudin A, Nomberto G, Alvarado C, Solis C, Avila Bolivar L, Blas R, Ortega J, Solis J, Panta A, Rivera C, Samolski I, Carbajulca DH, Bonierbale M, Pati A, Heath LS, Bohnert HJ, Greene R (2008) Molecular and physiological adaptation to prolonged drought stress in the leaves of two Andean potato genotypes *Functional Plant Biology*, 35: 669 - 688.
2. Watkinson JI, Sioson AA, Vasquez-Robinet C, Stromberg V, Heath LS, Bohnert HJ, and **Greene R** (2008) Tuber development phenotypes in adapted and acclimated, drought-stressed *Solanum tuberosum* ssp. *andigena* have distinct expression profiles of genes associated with carbon metabolism. *Plant Physiology and Biochemistry*. 46:34-45
3. Vasquez-Robinet C, Mane SP, Ulanov AV, Watkinson JI, Stromberg VK, De Koeeyer D, Schafleitner R, Willmot DB, Bonierbale M, Bohnert HJ, and **Greene R** (2008) Physiological and molecular adaptations to drought in Andean potato genotypes *J. Exp. Bot.*, 59: 2109 - 2123.
4. Mane SP, Vasquez-Robinet C, Sioson AA, Heath LS, **Greene R** (2007) Early PLD{ α }-mediated events in response to progressive drought stress in *Arabidopsis*: a transcriptome analysis. *Journal of Experimental Botany* 2007 58:241-252.
5. Li P, Sioson A, Mane SP, Ulanov A, Grothaus G, Heath LS, Murali TM, Bohnert HJ, **Greene R**. (2006) Response diversity of *Arabidopsis thaliana* ecotypes in elevated [CO₂] in the field. *Plant Mol Biol*. 62: 593-609

Five Other Peer-Reviewed Publications: (all NSF-sponsored)

6. Li, P., Mane, S.P. Sioson, A., Vasquez Robinet, C. Heath, L.S. Bohnert, H.J., and **Grene, R** (2006). Effects of Chronic Ozone Exposure on Gene Expression in *Arabidopsis thaliana* Ecotypes and in *Thellungiella halophila*, Plant Cell and Environment, 29: 854-869
7. Li P, Bohnert HJ, **Grene R** (2007) All about FACE--plants in a high-[CO₂] world. Trends Plant Sci. 2007 12:87-9.
8. Sioson AA, Mane SP, Li P, Sha W, Heath LS, Bohnert HJ, **Grene R**. (2006) The statistics of identifying differentially expressed genes in Expresso and TM4: a comparison. BMC Bioinformatics; 7:215.
9. Pati A, Vasquez-Robinet C, Heath LS, **Grene R**, Murali TM (2006). XcisClique: analysis of regulatory bicliques. BMC Bioinformatics. 7: 218.
10. Watkinson JI, Hendricks L, Sioson AA, Vasquez-Robinet C, Stromberg V, Heath LS, Schuler, Bohnert HJ, Bonierbale M, and **Grene R**, (2006) Accessions of *Solanum tuberosum* ssp. andigena show differences in photosynthetic recovery after drought stress as reflected in gene expression profiles Plant Science, 171: 745–758

Synergistic Activities Member of a group of founding faculty of Doctoral Program in Genetics, Bioinformatics, and Computational Biology at VT; Faculty Liaison for the VT-AMP program to retain and promote success of underrepresented groups in the STEM fields, 2005-2009; Vice-Chair, then Chair of the VT Commission for Equal Opportunity and Diversity, 2006-2008; Members of the VT Molecular Plant Sciences Faculty; Co-Founder of the Molecular Cell Biology and Biotechnology Option at VT, 1990

Collaborators and Co-Editors

Bohnert, HJ, University of Illinois	Ramakrishnan, N, Virginia Tech
Bonierbale, M, Centro Internacional de la Papa	Sederoff, RR, North Carolina State University
Chevone, BI, Virginia Tech, retired	Sha, W, Virginia Tech
Grothaus, G, Google	Shukla, M, VBI
Erturk, N, Converse College	Shuler, M, University of Illinois
Heath, LS, Virginia Tech	Sioson, AA, Ateneo de Naga University
Hendricks, L, Syracuse University	Ulanov, A, University of Illinois
Li, P, Cornell University	Van Zyl, L, North Carolina State University
Mane, SP, Virginia Tech	Vasquez Robinet, C, Ludwigs Maximillian
Moura, C, Duke University	Universitat,
Murali, TM, Virginia Tech	Watkinson, JI, Roanoke College
Pati, A, Joint Genomics Institute	Watson, LW, Virginia Tech
	Whetten, R, North Carolina State University

Graduate and Postdoctoral Advisors

Paul Castelfranco, University of California, Davis, retired, Daniel Kohl, Washington University, St. Louis, retired, Andre Jagendorf, Cornell University, retired, Richard Criddle, University of California, Davis, Ken Sauer, University of California, Berkeley

Thesis Advisor and Postdoctoral Scholar Sponsor, (6 graduate students, 4 post-doctoral), Alfred Hausladen, Duke University: Andreas Doulis, Mediterreanan Agronomic Institute: Neval Erturk, Converse College: Camellia Moses Okpodu, Norfolk State University: Cecilia Vasquez Robinet, Ludwigs Maximillian Universitat: Shrinivasrao Mane, Virginia Bioinformatics Institute: James V. Anderson, USDA: Ashima Sen Gupta, USDA: NR Madamanchi, University of North Carolina; Hiromi Tasaki, seed company, Yuba City, CA