

CURRICULUM VITAE

Cynthia M. Galloway

Department of Biological and Health Sciences
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Texas A & M University
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Education

- 1982 - 1987 Ph. D. BOTANY AND PLANT SCIENCES
University of California, Riverside
Dissertation Title: Purification characterization and regulation of phospho-
glucomutase from peas.
- 1978 - 1980 M.S. BIOLOGY
California State Polytechnic University, Pomona
Thesis Title: Effects of ethylene on lateral root initiation in radish.
- 1975 - 1978 B.S. BOTANY, cum laude
California State Polytechnic University, Pomona
Senior research: Chemotaxonomy of bryophytes

Employment History:

- August 2000 - Present PROFESSOR,
Dept. of Biological and Health Sciences, Texas A&M University,
Kingsville, Kingsville, TX
- August 1994 - 2000 ASSOCIATE PROFESSOR,
Dept. of Biology, Texas A&M University, Kingsville, Kingsville,
TX
- August 1990 - July 1994 ASSISTANT PROFESSOR,
Dept. of Biology, Texas A&M University, Kingsville, Kingsville,
TX
- August 1989 -June 1990 ADJUNCT ASSISTANT PROFESSOR,
Dept of Life Sciences, Winston-Salem State Univ., Winston-
Salem, No. Carolina
- February 1989-July 1989 RESEARCH ASSOCIATE
Hawaiian Sugar Planter's Assoc., Aiea, HI

March 1987 - Feb. 1989 POSTDOCTORAL ASSOCIATE
Dept of Biochemistry, University of Georgia Athens, GA

July, 1986 - Feb, 1987 GRADUATE ASSISTANT.
Dept of Botany and Plant Science, University of California,
Riverside, CA

Sept. 1984 - June 1986 TEACHING ASSISTANT.
Dept of Botany and Plant Science, University of California,
Riverside, CA

July 1982 - August, 1984 RESEARCH ASSISTANT.
Dept of Botany and Plant Science, University of California,
Riverside, CA

Sept. 1980 - June. 1981 LECTURER
Department of Botany, California State Polytechnic University,
Pomona, CA.

Sept 1978 - June, 1980 QUARTER-TIME LECTURER.
Department of Biology, California State Polytechnic University,
Pomona, California

Summer Employment

1996 VISITING SCIENTIST. USDA-ARS, Lubbock, TX.
Differential Display of PCR products produced from RNA from
desiccated and non-desiccated *Polytrichum juniperinum*.

1994-95 VISITING ASSOCIATE PROFESSOR - College of Biology,
Georgia Institute of Technology, Atlanta, GA

1993 VISITING ASSISTANT PROFESSOR - College of Biology,
Georgia Institute of Technology, Atlanta, GA

1991 QUARTER-TIME RESEARCHER - Dept of Biology, Texas
A&M University, Kingsville, TX

Courses Taught

Advanced Biology of Forensic Science
Biology of Forensic Science
Field Botany
Forensic Botany
General Biology 1
Genetics
Graduate Seminar

Human Genetics
Introductory Biology 1
Introductory Biology 2
Introductory Biology 2 lab
Introductory Botany
Introductory Cellular and Molecular Biology
Non-Flowering Plants
Plant Growth and Development
Plant Physiology
Plant Taxonomy
Senior Seminar

Bibliography of Publications

Negrete, IG, **CM Galloway** and AD Nelson. 2002. Noteworthy Plants Associated with the Coastal Bend of Texas. *Texas J. Sci.*54(3):241-248.

Galloway, C. M. 1999. Moss records for South Texas–2. *Evansia* 16:130–133.

Galloway, CM, P Alonzo and J Perez. 1996. First Report of Axillary Gemmae From *Sematophyllum adnatum*. *The Bryologist* 99: 240-241.

Galloway, CM, C Burke and D Leubert. 1996. *Rocella babingtonia* in southern Texas. *Evansia* 13:76.

Galloway, CM and CL Burandt, Jr. 1995. Moss records for Northcentral Mississippi. *Evansia* 12: 13-18.

Galloway, CM and WM Dugger. 1994. Purification and characterization of phosphoglucomutase from peas. *Physiologia Plantarum* 92: 479-486.

Kuti, JO and **CM Galloway**. 1994. Sugar content and invertase activities from three species of *Opuntia*. *J. of Food Science* 59:1-3.

Galloway, CM and CL Burandt, Jr. 1993. Moss Records for South Texas. *Evansia*. 10:34-40.

Galloway, CM and WM Dugger. 1990. Boron inhibition of phosphoglucomutase from peas. *J. of Plant Nutrition*. 13:817-825.

Galloway, CM and CC Black. 1989. Enzymes of sucrose metabolism in bryophytes. *The Bryologist*. 92: 95-97.

Galloway, CM, WM Dugger and CC Black. 1988. Fructose 2,6-bisphosphate inhibition of phosphoglucomutase. *Plant Physiol*. 88: 980-982.

- Sung, SS, DP Xu, **CM Galloway** and CC Black. 1988. A reassessment of glycolysis and gluconeogenesis in higher plants. *Physiol. Plant.* 72: 650-654.
- Blakely, LM, R Blakely and **CM Galloway**. 1986. Effects of DMSO and pH on IAA-induced lateral root formation in the radish seedling root. *Plant Physiol.* 80: 790-791.
- Galloway, CM**, WM Dugger and CC Black. 1985. In vitro activation of phosphoglucomutase by fructose 2,6-bisphosphate. *Plant Physiol.* 79: 920-922.
- Galloway, CM** 1978. *Orthotrichum flowersii*, a new record for the southwestern United States. *The Bryologist* 81, 354-355.

Referred Abstracts

- Galloway CM**, C Cobb*, C Cruz* and D Auz* 2012. Using Bryophytes to Examine Photosynthesis in an Undergraduate Plant Physiology Lab Environment. Annual Meetings of the American Society of Plant Biologists. July 2012, Austin, TX.
- Garcia, Jacob R. and **Cynthia Galloway**. 2009. Bryophytes of South Texas. The 1st TAMUK Javelina Research Symposium.
- McEwin, Arielle, **Cynthia Galloway** and Jean Escudero. 2008. Cloning of a phosphoglucomutase gene from *Bryum radiculosum*. Pathways Conference.
- Galloway CM*** and A McEwin, 2008. Noteworthy Bryological collections from South Texas Texas Academy of Science, March 2008. Texas A&M University-Corpus Christi, Corpus Christi, TX.
- McEwin A and **CM Galloway**. 2008. The cloning of a phosphoglucomutase gene from *Bryum radiculosum* Texas Academy of Science, March 2008. Texas A&M University-Corpus Christi, Corpus Christi, TX.
- Galloway CM**, 2008. A comparison of UDPG pyrophosphorylase and phosphoglucomutase activities from vascular and nonvascular plants. Texas Academy of Science, March 2008. Texas A&M University-Corpus Christi, Corpus Christi, TX.
- Egremy-Hernandez, JL, **CM Galloway** and K Krakauer. 2000. Exploratory Bryosurvey of the Chaparral Wildlife Management Area. Texas Academy of Science, February 2000. Texas A&M University-Kingsville, Kingsville, TX
- Galloway, CM**. 2000. The South Texas Moss Project. Texas Academy of Science, February 2000. Texas A&M University-Kingsville, Kingsville, TX
- Negrete, IG, A Hempel, **C Galloway**, and A Nelson, 2000. South Texas Endemics From Padre Island National Seashore and the Upper Arm of Laguna Salada on Baffin Bay. Texas Academy of Science, February 2000. Texas A&M University-Kingsville, Kingsville, TX

- Negrete, I, AD Nelson and **C Galloway**. 1999. Floristics and Vegetative Ecology of Barrier Island and Mainland Tidal Flats on the South Texas Coastal Plain. Texas Academy of Science, Texas Lutheran University.
- Galloway, CM**. 1995. South Texas Moss flora. Texas Academy of Science, Baylor University. February, 1995.
- Galloway, CM** and D Cook. 1995. Non-toxic methods of chlorophyll extraction and analysis. Annual meeting of the American Society of Plant Physiologists. Charlotte, NC, August 1995.
- J. Kuti and **CM Galloway**. 1994. Sucrose metabolizing enzymes from the tuna of three *Opuntia* species. Annual meeting of the American Horticulture Society. Corvallis, OR, August 1994.
- Galloway, CM** and J. Kuti. 1993. Sugar content and Invertase activities from three species of *Opuntia* tuna. Annual Meeting of the Southern Section - American Society of Plant Physiologists. Auburn University. March 20-22, 1993.
- Burandt, C and **CM Galloway**. 1991. Biocidal *Sida*. Texas Academy of Science, February, 1991.
- Galloway, CM** and C Burandt. 1991. A preliminary study of the moss flora of South Texas. Texas Academy of Science, February, 1991.
- Tanoye, L, **C Galloway**, A Maretzki and M Thom. 1990. Enzymes Related to the Degradative Pathways for Sucrose in Sugarcane Stalk Tissue. *Plant Physiol.* 93s:111.
- Black, CC, SS Sung, T Loboda and **CM Galloway**. 1988. Pathways and control of sucrolysis in plants. In: US-Japan Binational Seminar on Photoconversion and Photosynthesis. Honolulu, Hawaii, December, 1988.
- Black, CC, DP Xu, SS Sung, and **CM Galloway**. 1987. Pyrophosphate metabolism and the regulation of glycolysis and gluconeogenesis by fructose 2,6-bisphosphate. Vama, Bulgaria, September, 1987.
- Galloway, CM** and WM Dugger. 1987. The regulation of phosphoglucomutase by boron and inorganic pyrophosphate. *Plant Physiol.* 83s:88.
- Galloway, CM** and WM Dugger. 1986. Purification and characterization of phosphoglucomutase from peas. *Plant Physiol.* 80s:54.
- Galloway, CM**, WM Dugger and CC Black. 1985. The activation of phosphoglucomutase by fructose 2,6-bisphosphate. *Plant Physiol.* 77s:110.
- Blakely, LM, **C Galloway** and R Blakely. 1984. The pH of the medium affects lateral root formation in response to exogenous auxin. *Plant Physiol.* 75s:131.

Dugger, WM, RL Palmer and **C Galloway**. 1983. The incorporation of UDP[14C] glucose by intact cotton fibers grown in vitro. *Plant Physiol.* 72s:61.

Galloway, CM and LM Blakely. 1980. The effects of ethylene on lateral root initiation in radish. *Plant Physiol.* 65s:35.

Nonreferred Abstracts

Black, CC, **CM Galloway** and SS Sung. 1989. How do plants feed themselves sucrose? In: International Workshop of Plant Physiology. Havana University. October, 1989.

Galloway, CM. 1989. Sucrose Breakdown in Higher Plants. Tenth Annual Plant Physiology in Hawaii Symposium. University of Hawaii - Manoa. May 5, 1989.

Blakely, LM and **C Galloway**. 1982. Protoplasts from radish lateral root primordia. Genetic Engineering of Plants. University of California, Davis, CA. August 15-19, 1982.

Galloway, CM. 1980. The effects of ethylene on lateral root initiation in radishes. California Botanical Society Graduate Student Meetings. University of California, Riverside. March 26-27, 1980.

Galloway, CM. 1979. Notes on mosses of San Diego County, California. Annual Meeting of the American Bryological and Lichenological Society. Stillwater, Oklahoma. August 12 - 17, 1979.

Galloway, CM. 1979. Mosses new to southern California. Annual Meeting of the Southern California Academy of Sciences. Occidental College, Los Angeles, CA. May 1979.

Galloway, CM. 1978. Southern California *Grimmia*. Annual Meeting of the Southern California Academy of Sciences. California State Polytechnic University, Pomona, CA. May, 1978.

Referred Proceedings

Galloway, CM and CL Burandt, Jr. 1991. A preliminary study of the moss flora of south Texas. In, D. Gattis, ed., Symposium Proceedings of the Texas Academy of Science. pp. 35-38.

Black, CC, DP Xu, SS Sung and **CM Galloway**. 1988. Alternative routes in the biology of plants Illustrated with pyrophosphate metabolism and sucrose nutrition. In Proceedings of International Symposium on Plant Mineral Nutrition and Photosynthesis '87. eds. S. Vaklinova, V. Stanev and M. Dilova. pgs. 206-214.

Black, CC, N Paz, S Morrell, **C Galloway** and WM Dugger. 1985. Fructose 2,6-bisphosphate roles in regulating plant sugar metabolism. In DD Randall, et al., eds. Current Topics in Plant Biochemistry and Physiology, Vol 4. University of Missouri, Columbia, MO, pgs.156-165.

Blakely, LM, and **C Galloway**. 1982. Protoplasts of meristematic cells from radish lateral root primordia. ICMB, Cal Poly, Proceedings. Books, Chapters, Monographs, etc.

Galloway, CM. 1992. Index to Volume 95 of the Bryologist. The Bryologist, 95:492-501.

Galloway, CM. 1988. Plant Sugar Metabolism. In McGraw-Hill Yearbook of Science and Technology - 1988. SP Parker, ed., pgs. 319-321.

Brum, G.D. Endangered Species Trends Project. Final Report to the Southern California Edison Company. Research Assistants: C. Bayless, D. Bramlett, S. Carter, D. Dutton, **C. Galloway**, G. Keaslor, K. Oatman, V. Ryden.

Published Book Reviews

Galloway, CM. 1998. Review. Advances in Photosynthesis. Vol. 5. Photosynthesis and the Environment. Plant Science Bulletin. 44:25-26

Galloway, CM. 1998. Review. Subcellular Biochemistry. Vol. 29. Plant-Microbe Interactions. Plant Science Bulletin. 44:

Galloway, CM. 1998. Review. Dictionary of Plant Lore Plant Science Bulletin. 44:

Galloway, CM. 1996. Review of Mosses and Liverworts of Rainforest of Tasmania and Southeastern Australia. In Plant Science Bulletin. 43: 80.

Galloway CM. 1996. Review of Molecular Biology: A Projects Approach. In Plant Science Bulletin. 43: 89-90.

Galloway, CM. 1994. [Review] William D. Reese. Calymperaceae. Flora Neotropica Monograph 58: 1-102. The New York Botanical Garden, Bronx, New York, 10458. In The Bryologist 96: 678.

Galloway, CM. 1994. [Review] Noris Salizar Allen. Leucophanaceae. Flora Neotropica Monograph 59: 1-11. The New York Botanical Garden, Bronx, New York, 10458. In The Bryologist 96: 677-8

Presented Papers

International

Black, CC, **CM Galloway** and SS Sung. 1989. How do plants feed themselves sucrose? In: International Workshop of Plant Physiology. Havana University. October, 1989.

Black, CC, SS Sung, T Loboda and **CM Galloway**. 1988. Pathways and control of sucrolysis in plants. In: US-Japan Binational Seminar on Photoconversion and Photosynthesis. Honolulu, Hawaii, December, 1988.

Black, CC, DP Xu, SS Sung, and **CM Galloway**. 1987. Pyrophosphate metabolism and the regulation of glycolysis and gluconeogenesis by fructose 2,6-bisphosphate. Vama, Bulgaria, September, 1987.

National

Perez, Z and **C Galloway**. 1999. Purification and characterization of phosphoglucomutase from *Polytrichum juniperinum*. SACNAS Annual Meeting.

Perez, Z and **C Galloway**. 1999. Purification and characterization of phosphoglucomutase from *Polytrichum juniperinum*. 8th Annual McNair Conference.

Galloway, CM and D Cook. 1995. Non-toxic methods of chlorophyll extraction. Annual Meeting of the American Society of Plant Physiologists. Charlotte, NC, August 1995.

Kuti, J and **CM Galloway**. 1994. Sucrose metabolizing enzymes from the tuna of three *Opuntia* species. Annual Meeting of the American Horticulture Society. Corvallis, OR, August 1994.

Tanoye, L, **C Galloway**, A Maretzki and M Thom. 1990. Enzymes Related to the Degradative Pathways for Sucrose in Sugarcane Stalk Tissue. Annual Meetings of the American Society of Plant Physiologists. Indianapolis, IN.

Galloway, CM and WM Dugger. 1987. The regulation of phosphoglucomutase by boron and inorganic pyrophosphate. Annual Meetings of the American Society of Plant Physiologists. St. Louis, Missouri.

Galloway, CM and WM Dugger. 1986. Purification and characterization of phosphoglucomutase from peas. Plant Physiol. Louisiana State University. Baton Rouge, Louisiana.

Galloway, CM, WM Dugger and CC Black. 1985. The activation of phosphoglucomutase by fructose 2,6-bisphosphate. Brown University. Providence, RI.

Blakely, LM, **C Galloway** and R Blakely. 1984. The pH of the medium affects lateral root formation in response to exogenous auxin. Annual Meetings of the American Society of Plant Physiologists. Colorado State University, College Station, CO.

Dugger, WM, RL Palmer and **C Galloway**. 1983. The incorporation of UDP[14C] glucose by intact cotton fibers grown in vitro. Annual Meetings of the American Society of Plant Physiologists. University of California, Davis, CA.

Blakely, LM and **C Galloway**. 1982. Protoplasts from radish lateral root primordia. Genetic Engineering of Plants. University of California, Davis, CA. August 15-19, 1982.

Galloway, CM and LM Blakely. 1980. The effects of ethylene on lateral root initiation in radish. Annual Meetings of the American Society of Plant Physiologists. Vancouver, WA.

Galloway, CM. 1979. Notes on mosses of San Diego County, California. Annual Meeting of the American Bryological and Lichenological Society. Oklahoma State University, Stillwater, Oklahoma. August 12 - 17, 1979.

Regional (Southeastern United States)

Galloway, CM, R. Williams and D. Raymundo. 1998. Water Relations: Something Old, Something New. Annual Meeting of the Southern Section - American Society of Plant Physiologists. Roanoke, VA.

Williams, R. and **CM Galloway.** 1998. Physiological and Biochemical Viability of Dessicated *Tortula ruralis* and *Polytrichum juniperinum*. Annual Meeting of the Southern Section - American Society of Plant Physiologists. Roanoke, VA.

Galloway, CM and J. Kuti. 1993. Sugar content and Invertase activities from three species of *Opuntia tuna*. Annual Meeting of the Southern Section – American Society of Plant Physiologist. Auburn University. March 20-22, 1993.

Galloway, CM. 1991. Fluctuations in sucrose synthase activity in attached and detached potato tubers. Annual Meeting of the Southern Section - American Society of Plant Physiologists. Lexington, Kentucky. Feb. 24-26, 1991.

State

California

Galloway, CM. 1980. The effects of ethylene on lateral root initiation in radishes. California Botanical Society Graduate Student Meetings. University of California, Riverside. March 26-27, 1980.

Galloway, CM. 1979. Mosses new to southern California. Annual Meeting of the Southern California Academy of Sciences. Occidental College, Los Angeles, CA. May 1979.

Galloway, CM. 1978. Southern California Grimmia. Annual Meeting of the Southern California Academy of Sciences. California State Polytechnic University, Pomona, CA. May, 1978.

Hawaii

Galloway, CM. 1989. Sucrose Breakdown in Higher Plants. Tenth Annual Plant Physiology in Hawaii Symposium. University of Hawaii - Manoa. May 5, 1989.

Texas

- Galloway CM, C Cobb*, C Cruz* and D Auz*** 2012. Using Bryophytes to Examine Photosynthesis in an Undergraduate Plant Physiology Lab Environment. Annual Meetings of the American Society of Plant Biologists. July 2012, Austin, TX.
- Galloway CM*** and A McEwin, 2008. Noteworthy Bryological collections from South Texas Texas Academy of Science, March 2008. Texas A&M University-Corpus Christi, Corpus Christi, TX.
- McEwin A and **CM Galloway**. The cloning of a phosphoglucomutase gene from *Bryum radiculosum* Texas Academy of Science, March 2008. Texas A&M University-Corpus Christi, Corpus Christi, TX.
- Galloway CM**, 2008. A comparison of UDPG pyrophosphorylase and phosphoglucomutase activities from vascular and nonvascular plants. Texas Academy of Science, March 2008. Texas A&M University-Corpus Christi, Corpus Christi, TX.
- Egremy-Hernandez, JL, **C Galloway** and K Krakauer. 2000. Exploratory Bryosurvey of the Chaparral Wildlife Management Area. Texas Academy of Science, February 2000. Texas A&M University-Kingsville, Kingsville, TX
- Galloway, CM**. 2000. The South Texas Moss Project. Texas Academy of Science, February 2000. Texas A&M University-Kingsville, Kingsville, TX
- Negrete, IG, A Hempel, **C Galloway**, and A Nelson, 2000. South Texas Endemics From Padre Island National Seashore and the Upper Arm of Laguna Salada on Baffin Bay. Texas Academy of Science, February 2000. Texas A&M University-Kingsville, Kingsville, TX
- Negrete, I, AD Nelson and **CM Galloway**. 1999. Floristics and Vegetative Ecology of Barrier Island and Mainland Tidal Flats on the South Texas Coastal Plain. Texas Academy of Science, Texas Lutheran University.
- Galloway, CM**. 1995. Bryological Research in South Texas. Texas Academy of Science, Baylor University.
- Galloway, CM**. 1992. Effects of Ethylene and IAA on root elongation in developing Wisconsin Fast Plant seedlings. Texas-Wisconsin Fast Plant Team Annual Report, May, 1992.
- Burandt, C and **CM Galloway**. 1991. Biocidal Sida. Texas Academy of Science, Stephen F. Austin University.
- Galloway, CM** and C Burandt. 1991. A preliminary study of the moss flora of South Texas. Texas Academy of Science, Stephen F. Austin University.

Local

Garcia, Jacob R. and **Cynthia Galloway**. 2009. Bryophytes of South Texas. Ghe 1st TAMUK Javelina Research Symposium.

McEwin, Arielle, **Cynthia Galloway** and Jean Escudero. 2008. Cloning of a phosphoglucomutase gene from *Bryum radiculosum*. Pathways Conference.

Perez, Z. and **C.M. Galloway**. 1999. Partial Purification and Characterization of Phosphoglucomutase from Desiccated *Polytrichum juniperinum*.

Raymundo, D. and **C.M. Galloway**. 1999. Physiological and Biochemical Viability of Dessicated Mosses. Texas A&M -Kingsville 1st Annual President's Distinguished Research Day. April 16, 1999.

Raymundo, D. and **C.M. Galloway**. 1998. Physiological and Biochemical Viability of Dessicated Moss Species. McNair Scholar

Galloway, CM and CL Burandt. 1994. Mosses of North-central Mississippi. Research Day. Texas A&M University, Kingsville, April 1994.

Galloway, CM and J. Kuti. 1993. Sugar content and sucrose metabolism in three species of *Opuntia tuna*. Research Day. Texas A&I University, April 20, 1993.

Invited talks

Galloway, Cynthia M. 2008. South Texas Bryophytes: Come Out, Come Out, Wherever You Are. Texas Plant Conservation Conference, Texas A&M University-Corpus Christi, Corpus Christi, TX [Invited speaker]

Honors

2002 Distinguished Service Award. Southern Section of the American Society of Plant Physiologists.

1987 Myron Winslow Scholarship. \$2500. Award for completed original research

1978 Paul Marti Memorial Scholarship. \$1250. Award for environmental research

Honorary Societies

Beta Beta Beta - President, Cal Poly Chapter, 1977-78
Phi Kappa Phi

Sigma Xi
California Scholastic Federation

Professional Societies

American Bryological and Lichenological Society (ABLS)

American Society of Plant Physiologists (ASPP)

Botanical Society of America (BSA)

British Bryological Society (BBS)

International Society of Bryologists (ISB)

Southern Section - American Society of Plant Physiologists

(SS-ASPP); Secretary/Treasurer 1993-94; Vice Chairman
1994-95; Chairman 1995-96)

Texas Academy of Science (TAS)

Botany Section President-Elect 2000-2001