

Biographical Sketch

Lonnie J. Guralnick
Department of Biology
Roger Williams University
One Old Ferry Rd.
Bristol, RI 02809

Phone:401-254-3581 E-mail: lguralnick@rwu.edu

A. Professional Preparation

Ph. D. Botany (Plant Physiology), August 1987; University of California, Riverside.

MS Biology, May 1983; San Diego State University, **Concentration: Ecology**

BA Biology, June 1979; University of California, San Diego. **Concentration: Population Biology**

B. Appointments

- July 2008- Present, **Professor of Biology, Roger Williams University**
- Jan 2012-June 2013; **Interim Dean, Feinstein College of Arts and Sciences**, Roger Williams University
- July 2008- June 2013, **Assistant Dean, Math and Natural Sciences, Professor of Biology, Roger Williams University**
- Sept 1989-June 2008, Professor, Associate, and Assistant Professor of Biology, Western Oregon University
- Aug 1987-May 1989, Assistant Professor of Biology and Chemistry, Rocky Mountain College
- Summer 1988, Summer 1989-Post-doctoral Associate with Dr. Robert Heath, University of California, Riverside.

C. Products

Publications:

Carbon Isotope Composition of Populations of *Portulacaria afra* in the Eastern Cape, Lonnie J. Guralnick and Kate Gladsky, Submitted to functional plant biology

Guralnick LJ, A Cline*, M. Smith, R. Sage (2008) Evolutionary Physiology: The extent of C₄ and CAM photosynthesis in the Genera *Anacampseros* and *Grahamia* of the Portulacaceae. J. Exp. Bot. 2008 59: 1735-1742

Guralnick LJ, GE Edwards, MSB Ku, *B. Hockema, & V. Franceschi (2002) Photosynthetic and anatomical characteristics in the C₄/CAM-cycling species, *Portulaca grandiflora*. Functional Plant Biology 29(5): 763-773

Guralnick LJ, *C Marsh, *R Asp, & *A. Karjala (2001) Physiological and anatomical investigations of CAM-cycling in *Lewisia cotyledon* (Portulacaceae). Madrono 48(3): 131-137

Guralnick, LJ, *M. Jackson (2001) The Occurrence and Phylogenetics of CAM in the *Portulacaceae*. International Journal of Plant Science, 162 (2): 257-262

Presentations:

Wilson A*, LJ Guralnick (2013) Induction of Crassulacean Acid Metabolism and the Role of Photorespiration in *Portulacaria afra*. Abstract # 11003. American Society of Plant Biologists meeting, Providence, RI, July 2013.

Guralnick LJ, A Cline*, M. Smith, R. Sage (2008) Evolutionary Physiology: The extent of C₄ and CAM photosynthesis in the Genera *Anacampseros* and *Grahamia* of the Portulacaceae. J. Exp. Bot. 2008 59: 1735-1742

Guralnick LJ, GE Edwards, MSB Ku, *B. Hockema, & V. Franceschi (2002) Photosynthetic and anatomical characteristics in the C4/CAM-cycling species, *Portulaca grandiflora*. *Functional Plant Biology* 29(5): 763-773

Guralnick LJ, *C Marsh, *R Asp, & *A. Karjala (2001) Physiological and anatomical investigations of CAM-cycling in *Lewisia cotyledon* (Portulacaceae). *Madrono* 48(3): 131-137

Guralnick, LJ, *M. Jackson (2001) The Occurrence and Phylogenetics of CAM in the *Portulacaceae*. *International Journal of Plant Science*, 162 (2): 257-262

Guralnick, LJ, MSB Ku, GE Edwards, *D. Strand, *B. Hockema, & *J. Earnest (2001) Induction of PEP carboxylase and Crassulacean acid metabolism with Gibberellic acid in *Mesembryanthemum crystallinum*. *Plant & Cell Physiology* 42: 236-239

D. Synergistic Activities

- 2012-Present Biology Division Editor, CUR Quarterly
- 2012-2017 **NSF S-STEM**, Co-PI "RWU STILAS- STEM Intercultural Leadership Ambassador Scholars in Biology, Marine Biology and Engineering," (~\$586,000) Director of the STILAS-STEM committee to implement our NSF STEM grant; Co-PI for a NSF S-STEM grant for \$586K, Working with student support services to monitor progress of our STILAS students success
- Part of a national working group on a NSF grant to bring research experiences into the undergraduate laboratory
- 2012 Inclusive Excellence Grant (RWU). Diversifying STEM Enrollment at RWU; \$ 2625.
- 2010-2015 **NSF-EPSCoR**, PI for Roger Williams (Worked with Coordinator, RI NSF EPSCoR Undergraduate Research) \$2.1 million allocated to Roger Williams University
- 2009 Fulbright-Hays State Dept Grant: Sustainability studies in Turkey, Capacity building for study abroad (Co-PI, \$95,000)

Reviewer

National Science Foundation: Reviewer of Division of Education and Instrumentation and Laboratory Improvement Programs

- Photosynthetica, American Journal of Botany, American Midland Naturalist, Plant, Cell & Environment, Plant Physiology, Functional Plant Biology, Journal of Experimental Botany, Australian Journal of Plant Physiology, Biological Journal of Linnean Society, Annals of Botany, International Journal of Plant Science, Physiologia Plantarum
- Cooperative Grants Program of the U.S. Civilian Research and Development Foundation (CRDF)

F. Collaborators & Other Affiliations

- Dr. Rowan Sage, University of Toronto
- Dr. John Cushman, University of Nevada, Reno
- Dr. Klaus Winter, Smithsonian Tropical Research Institute
- Dr. Gerald Edwards, Washington State University
- Dr. Erika Edwards, Brown University

G. Graduate Advisors and Postdoctoral Sponsors.

- Dr. Irwin P. Ting—retired, University of California, Riverside
- Dr. Robert Heath- retired, University of California, Riverside
- Dr. Dan Arp—Oregon State University