

## **Curriculum Vitae**

Dr. Joy L. Marshall

### **Appointments**

2013 – Present	Full-time Faculty Houston Community College – Southwest Biology Department
2012 – 2013	Adjunct Faculty Houston Community College – Southwest Biology Department
2012 – 2013	Adjunct Faculty University of Houston – Downtown Biology Department
2012 – Present	Associate Faculty University of Phoenix
2011 – 2013	Adjunct Faculty: San Jacinto College and Lone Star College Biology Department
2004 - 2011	Assistant Professor Biology Department, Prairie View A&M University
2003 – 2004	Research Associate, Pediatrics Department Baylor College of Medicine, Children's Nutrition Research Center
2000	Teaching Supervisor – Undergraduate Research Beloit College visiting student
1998	Teaching Assistant University of Texas Health Science Center – Houston, Medical School
1992 – 1996	Medical Technologist I University of Texas M.D. Anderson Cancer Center

### **Education**

Doctor of Philosophy in Microbiology  
Microbiology and Molecular Genetics Department  
Graduate School of Biomedical Sciences  
University of Texas Health Science Center – Houston

8 / 1996 – 8 / 2003

Master of Science in Biochemistry, Plan II Department of Biochemical and Biophysical Sciences University of Houston – University Park	1 / 1994 – 5 / 1996
Post-Baccalaureate Department of Biochemical and Biophysical Sciences University of Houston – University Park	8 / 1992 – 12 / 1993
Certified Medical Technologist (American Society of Clinical Pathologist) MT 189195 Harris County Hospital District / Texas Children’s Hospital School of Medical Technology Ben Taub General Hospital, Houston, Texas	8 / 1991 – 8 / 1992
Bachelor of Science in Biochemistry Department of Biochemistry and Biophysics Texas A&M University – College Station	8 / 1987 – 5 / 1991

### Academic Honors and Awards

The President’s Achievement Award – Texas A&M University	1987 – 1991
Worthing Scholarship – Nation’s Bank	1987 – 1991
Research Supplement for Underrepresented Minorities NIH Grant R-29-GM44344	7/94 – 8/95
Research Supplement for Underrepresented Minorities NIH Grant R-01-GM55481	7/97 – 8/98
NIH Minority Pre-Doctoral Fellowship NIH Grant F31 GM20449	3/00 – 2/03
University of Texas – Houston Minority Faculty Association	2000
American Society for Microbiology Student Travel Award	2000

### Selected Publications and Abstracts

#### Papers:

J.K. Pittman, T. Shigaki, **J.L. Marshall**, J.L. Morris, N-H Cheng and K.D. Hirschi. 2004. Functional and regulatory analysis of the *Arabidopsis thaliana* CAX2 cation transporter, *Plant Molecular Biology* (2004) 56: 959-971.

J. Zhao, B.J. Barkla, **J.L. Marshall**, J.K. Pittman and K.D. Hirschi. 2008. The *Arabidopsis cax3* mutants display altered salt tolerance, pH sensitivity and reduced plasma membrane H<sup>+</sup>-ATPase activity, *Planta* 227:659-669.

Shigaki T., H. Mei, **J.L. Marshall**, X. Li, M. Manohar, K.D. Hirschi. 2010. The expression of the open reading frame of *Arabidopsis* CAX1, but not its cDNA, confers metal tolerance in yeast. *Plant Biol.* 12:935-939.

Manohar M., Shigaki T., Mei H., Park S., **J.L. Marshall**, Aguilar J., Hirschi KD. 2011. Characterization of *Arabidopsis* Ca<sup>2+</sup>/H<sup>+</sup> exchanger CAX3. *Biochemistry* 50:6189-6195.

### **Research Support**

National Science Foundation Research Opportunity Award (to JLM)  
Arabidopsis 2010 – Collaborative Research: Discovering Transporters for Essential Minerals and Toxic Ions In Plants NSF Award #0209777; Summers 2004 - 2008

American Society for Cell Biology / Minority Affairs Committee 2009 – 2010; 2010 - 2011

### **Professional Memberships**

American Society of Clinical Pathologists  
American Society for Microbiology