

**Lukas A. Mueller**  
 Solanaceae Genomics Network (SGN) Facility  
 Cornell University  
 Ithaca, NY 14853

lam87@cornell.edu  
 607 255-6557

### **Professional Preparation**

Swiss Federal Institute of Technology	Natural Sciences	Diploma	1991
University of Lausanne	Plant Biochemistry	Ph.D.	1997
Stanford University	Plant Biology	Postdoc	1997-2000

### **Professional Appointments**

2008-	Assistant Scientist, Boyce Thompson Institute
2003-2008	Senior Research Associate, Solanaceae Genomics Network Facility, Cornell Univ.
2000-2003	Curator, Arabidopsis Information Resource (TAIR), Carnegie Institution of Washington at Stanford
1997-2000	Postdoctoral Fellow, Stanford University, Laboratory of Virginia Walbot

### **Five Publications Most Closely Related**

Menda, N, Buels, R, Tecle, I and Mueller, LA. (2008) A community-based annotation framework for linking Solanaceae genomes with phenomes. *Plant Phys.* 147(4):1788-99.

Mueller LA, Mills AA, Skwarecki B, Buels RM, Menda N, Tanksley SD (2008). The SGN comparative mapviewer. *Bioinformatics*, 24:422-423

Garcia-Hernandez, M., T.Z. Berardini, G. Chen, D. Christ, A. Doyle, E. Huala, E. Knee, M. Lambrecht, N. Miller, L.A. Mueller, S. Mundodi, L. Reiser, S.Y. Rhee, R. Scholl, J. Tacklind, D.C. Weems, Y. Wu, I. Xu, D. Yoo, J. Yoon, and P. Zhang. 2002. TAIR: a resource for integrated Arabidopsis data. *Funct. Integr. Genomics* 2(6):239-253.

Mueller, L.A., P. Zhang, and S. Rhee. 2003. AraCyc: An *Arabidopsis thaliana* biochemical pathway database. *Plant Physiol.* 132:453-460.

Krieger, C.J., P. Zhang, L.A. Mueller, A. Wang, S. Paley, M. Arnaud, J. Pick, S.Y. Rhee, and P.D. Karp. 2004. MetaCyc: a multiorganism database of metabolic pathways and enzymes. *Nucleic Acids Res.* 32(1):D438-442.

### **Five Other Significant Publications**

Wu F, Mueller LA, Crouzillat D, Petiard V, Tanksley SD. (2006) Combining bioinformatics and phylogenetics to identify large sets of single-copy orthologous genes (COSII) for comparative, evolutionary and systematic studies: a test case in the euasterid plant clade. *Genetics*. 2006 Nov;174(3):1407-20

Mueller, L.A., R. Silady, C.D. Goodman, and V. Walbot. 2000. AN9, a glutathione S-transferase from *Petunia* required for vacuolar sequestration of anthocyanins, is a flavonoid binding protein. *Plant Physiol.* 123:1561-1570.

Mueller, L.A. and V. Walbot. 2001. Models for the vacuolar sequestration of anthocyanins. In: *Recent Advances in Phytochemistry*, vol. 35, J.T. Romeo, J.A. Saunders, and B.F. Matthews, ed., pp. 297-312.

Mueller, L.A., U. Hinz, and J.P. Zryd. 1996. Characterization of a tyrosinase from *Amanita muscaria* involved in betalain biosynthesis. *Phytochemistry* 42:1511-1515.

Mueller, L.A., U. Hinz, and J.P. Zryd. 1996. Recombinant DOPA dioxygenase catalyzes the conversion of DOPA to muscaflavin and betalamic acid. *Phytochemistry* 44:567-569.

### **Selected Synergistic Activities**

Coordinator of bioinformatics group for tomato genomics project.  
 Coordinator of an undergraduate bioinformatics program.  
 Development of the SGN database; development of bioinformatics software.