

BARBARA K. KEITH Ph.D. (nee TIMBLIN)

Professional Preparation:

University of Washington, Microbiology; B.S. 1988

Hahnemann University, Microbiology and Immunology; Ph.D. 1996

Experience:

07/08-present **Research Scientist**

Montana State University, Dept. of Land Resources and Environmental Sciences

03/07-04/10 **GK-12 Science and Project Coordinator**

Montana State University, Dept. of Land Resources and Environmental Sciences

02/05-03/07 **Research Scientist**

Montana State University, Dept. of Plant Sciences and Plant Pathology

12/99-11/04 **Senior Research Specialist**

University of Illinois-Chicago, Dept. of Pharmacology

Fall 1998 **Visiting Lecturer**

Amherst College

Fall 1998 **Visiting Lecturer**

University of Massachusetts

03/99-07/99 **Post-doctoral Fellow**

06/96-04/98 *University of Massachusetts, Dept. of Biochemistry and Molecular Biology*

Selected Publications:

Keith B. K., Kalinina E., and Dyer W. E. 2011. Differentially expressed genes in dicamba-resistant and susceptible biotypes of *Kochia scoparia*. *Weed Biology and Management*, 11, 224-234.

Timblin B., Rehli M., and Skidgel R.A. 2002. Structural Characterization of the Human Carboxypeptidase D Gene and Its Promoter. *Int. Immunopharmacol.* 2(13-14):1907-17.

Timblin B.K. and L. W. Bergman. 1997. Elevated Expression of Stress Response Genes Resulting From Deletion of the *PHO85* Gene. *Molecular Microbiology*, 26:981-990.

Timblin B.K., Tatchell K. and L.W. Bergman. 1996. Deletion of the Gene Encoding the Cyclin-Dependent Protein Kinase *PHO85* Alters Glycogen Metabolism in *Saccharomyces cerevisiae*. *Genetics*, 143(1):57-66.

Other Publications:

[Knezevic N, Roy A, Timblin B, Konstantoulaki M, Sharma T, Malik AB, Mehta D.](#) 2007. GDI-1 phosphorylation switch at serine 96 induces RhoA activation and increased endothelial permeability. *Mol Cell Biol.* Sep;27(18):6323-33

Shajahan A.N., **Timblin B.K.**, Sandoval R., Tiruppathi C., Malik A. B., and Minshall R. D. 2004. Role of Src-Induced Dynamin-2 Phosphorylation in Caveolae-Mediated Endocytosis in Endothelial Cells. *J. Biol. Chem.* 7;279(19):20392-20400.

Predescu S. A., Predescu D. N., **Timblin B.K.**, Stan R.V., and Malik A. B. 2003. Intersectin Regulates Fission and Internalization of Caveolae in Endothelial Cells. *Mol. Biol. Cell.* 14(12):4997-5010.

Li J., Rehli M., **Timblin B.**, Tan F., Krause S. W., and Skidgel R. A. 2002. Structure of the Human Carboxypeptidase M Gene. Identification of a Proximal GC-Rich Promoter and a Unique Distal Promoter that Consists of Repetitive Elements. *Gene.* 6;284(5):981-202.

Laxer M.A., **Timblin B.K.**, and R.J. Patel. 1991. DNA Sequences for the Specific Detection of *Cryptosporidium parvum* by the Polymerase Chain Reaction. *Am. J. Trop. Med. Hyg.* 45(6):688-694.

Honors and Awards:

1996 Outstanding Young Investigator Award; Annual Oxygen Society Meeting
1995 Department of Microbiology and Immunology Outstanding Student Award
1993 Copit Family Research Award

Course Taught:

Biochemistry 526 (UMASS)
Biochemistry 420 (UMass)
Biology 100 (UMass)
Biology 27 (Amherst College)
Land Resources and Environmental Sciences 500 (Montana State University)