



# TERESA BETH KHOFRI

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## Education

Bachelor of Sciences - Biochemistry, University of Kansas, Lawrence, KS

2002-2005

## Experience

**Research Associate** - University of Kansas School of Engineering Department of Civil and Environmental Engineering Lawrence, KS

2000-2005

Assisting graduate students with research conclusions in environmental engineering research. Conducting analysis for water quality research, organizing the laboratory, conducting internet research, assisting with presentations, data entry, data analysis, troubleshooting laboratory instrumentation, and running field experiments.

**Applications Engineer** - Bio-Microbics, Inc. 8450 Cole Pkwy, Shawnee, KS

2005-2007

Conducting analysis on wastewater systems. Providing suggestions and improvements for company products, assisting clients with wastewater system designs specific to client specifications. Assisting with research towards new products.

**General Laboratory Supervisor and Microbiologist III** - Kansas Department of Health and Environment Neonatal Screening Laboratory. Forbes Field Bldg 740, Topeka, KS

2007-2010

Analyze blood for specific Genetic metabolic disorders in Newborns using various techniques and technology. Training new employees on analysis and instrumentation. Developing a Mass Spectrometry program for our department. Responsible for implementing a new computer program by Perkinelmer Technologies (Specimen Gate). Managing fellow employees, and general department management tasks. Acted as assistant safety officer.

**Associate Enologist/Chemist** - 12th and Maple Wine Co 1242 SE Maple St, Dundee, OR.

2010-2011

Assisting with chemical analysis of wine, bottling wine, assisting with crush and fermentation of wine grapes, providing insightful ideas for a more efficient laboratory process. Acted as co-safety manager.

**Research Scientist** - Touro University

2012-Present

Conducting research using a Gas Chromatography Mass Spectrometry and High Performance Liquid Chromatography, assisting with sample preparation, performing calculations on sample data, collaborating on conclusions based on sample data calculations, assist with grant submission and managing research assistants. Placing orders for supplies, organizing the laboratory, and developing new methods.



## Skills

Extracellular enzyme activity analysis  
Microscopic tracer identification  
DNA/RNA Extractions  
Isoelectric focusing  
Fluorometry  
Gas Chromatography Mass Spectrometry  
Wallac/Victor system for colorimetric analysis

Polymerase Chain Reaction instrumentation  
High Pressure Liquid Chromatography  
Ebulometer  
MS Office: Word, Excel, Power Point, Outlook  
LIMS  
Specimengate Software  
Winemakers Database  
ChemStation

## Publications

Knapp, C.W., Lane, T.B., Liu, W., Ebihara, T. and Graham, D.W., "Non-linear Dynamics in Bioreactors with Mixed Microbial Communities," Poster and presentation at the International Society of Microbial Ecology (ISME) 10th Annual Meeting, Cancun, Mexico. (2004).

David W. Graham; Charles W. Knapp; Erik van Vleck; Teresa B. Lane;  
Christopher E. Graham, "Experimental Demonstration of Chaotic Instability in Aerobic Biological Nitrification" Submitted to "Nature-ISME Journal." (2007)

Knapp, C.W., Lane, T.B., Liu, W., Ebihara, T. and Graham, D.W., "Non-linear Dynamics in Bioreactors with Mixed Microbial Communities," Submitted to "FEMS Microbiological Ecology." (2007)