

Michael N. Guerini, Ph.D.

Michael Guerini, Ph.D.
Gilroy, CA 95020

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PROCESS IMPROVEMENT SPECIALIST

Qualifications:

- Experience in Microbiology, Food Safety, Biofuels, Quality Assurance, and Food Processing.
- Led multiple Research and Development Teams with staffs of >10 scientists.
- Developed multiple Microbiology and Quality Assurance laboratories and programs.
- Experience as a technical writer and editor for >10 years.

Competencies:

Project management/leadership and Microsoft Office (including Project and Visio), Research & Development, Microbiology, Quality Assurance, Food Safety, Editor, GLP/GMP, Regulatory documentation, Technical writing.

Professional Experience:

EPIC413, Gilroy CA

2011 to present

Microbiologist/ Process Improvement Specialist

- Method evaluation and development for QC testing of food process.
- GMP plant food safety and sanitation related inspections.
- Developed new processing solution to reduce food product handling and increase efficiency by 50%.
- Planned the analytical/microbiology laboratory set-up and operations for multiple facilities.
- Develop SOP's, conducted equipment validations.
- Decreased laboratory analysis time requirements for one assay by 80%.
- Advisor for Quality Control, Quality Assurance for a Microbiology product company.
- Develop culture systems for microorganism food production.

Freelance Editor, remote position

2007 - 2009, 2012 - present

Freelance Editor

- Edit two to three manuscripts per month for correct APA grammar and format.

EdeniQ, Visalia CA

2008 - 2011

Director of Technology/Director of R&D

- Lead the Genetics and Biochemistry/Microbiology teams (10 to 15 people).
- Experience culturing yeast for large-scale fermentation projects (flask to 50-gallon scale).
- Delivered final product for a \$210,000 contract-manufacturing project in 8 weeks.
- Developed Quality Assurance program, wrote protocols, and technology transfer documentation.
- Worked with Regulatory documentation (FDA, USDA, and EPA).

USDA-ARS-US Meat Animal Research Center, Clay Center NE

2004 - 2008

Research Microbiologist

- Managed project requiring coordination of scientists and laboratory technical staff for processing >1600 samples for food safety. (wrote grant and received funding for this project)
- Developed rapid methods for isolating and molecular methods for identifying foodborne pathogens.

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SIERRA BIOSOURCE, Morgan Hill CA

2002 - 2004

Research Scientist II

- Managed a product development team that created two cell culture supplements.
- Coordinated 15-month project by leading research and development, quality control metrics and product transfer meetings between development, manufacturing and sales.

Education:

Montana State University Ph.D. 2002 Veterinary Molecular Biology (Bozeman, MT)
Minor: Immunology

Auburn University M.S. 1997 Plant Pathology (Honors) (Auburn, AL)

San Jose State University B.S. 1994 Molecular Biology (San Jose, CA)
Minor: Chemistry

Honors/Awards/Patents/Affiliations:

Member of the American Society for Microbiology

Member of the American Society for Quality

Awarded United States Patent's 6,081,945 and 8,686,123

Graduated Phi Kappa Phi (Life member)

TQM award "Development of Genetic Markers in Pepper Breeding"

Judge at the Intel International Science and Engineering Fair (2010)

Publications:

>35 publications, >15 in food safety/microbiology

- Publications include scientific research articles, patent applications, technical manuals, white papers, non-fiction book and ebooks.
- 7 patent filings, 2 granted. 2 Patent application in bioprocessing/biological manufacturing, 3 in biofuels, 1 in cell culture supplements, 1 in animal husbandry equipment.

Representative Publications

- **Guerini MN**, Brichta-Harhay DM, Shackelford SD, Arthur TM, Bosilevac JM, Kalchayanand N, Wheeler TL, Koohmaraie M. (2007) Listeria Prevalence and Listeria monocytogenes Serovar Diversity at Cull Cow and Bull Processing Plants in the United States. J of Food Protection 70(11):2578-2582.
- **Guerini MN**, Bosilevac JM, Koohmaraie M. (2007) Rapid Enrichment Strategy for Isolation of Listeria from Bovine Hide, Carcass, and Meat Samples. J Food Protect, 70(1):53-7.
- **Guerini MN**, Arthur TM, Shackelford S, Koohmaraie M. (2006) Evaluation of Escherichia coli O157:H7 Growth Media for Use in Test-and-Hold Procedures in Ground Beef Processing. J Food Protect, 69(5):1007-1011.
- **Guerini MN**, Behnke MS, White MW. Biochemical and genetic analysis of the distinct proliferating cell nuclear antigens of Toxoplasma gondii. (2005) Mol Biochem Parasitol, 142(1):56-65.
- **Guerini MN**, Que X, Reed SL, White MW. (2000) Two genes encoding unique proliferating-cell-nuclear-antigens are expressed in Toxoplasma gondii. Mol Biochem Parasitol, 109(2):121-131.