

Elizabeth M. Culbert

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Objective:

Professional Skills:

- Laboratory management under GLP requirements
- Conducting research under GLP
- Method Development
- Troubleshooting and maintenance of instruments: HPLC, LC-MS/MS, GC, GC-MS.
- Wet Chemistry
- Solid Phase extraction (SPE)
- Technical report writing and peer review publications

Professional Experience

Washington State University Food and Environmental Quality Laboratory

Department of Entomology

Laboratory Supervisor

IR-4 Laboratory Research Director July 2006- present

In addition to duties of Research Supervisor, responsible for GLP compliance of FEQL IR-4 program.

Laboratory Supervisor

GLP coordinator May 2003-July 2006

Responsible for management of an analytical chemistry laboratory, and for supervising laboratory personnel and research projects under GLP regulations. Responsible for developing suitable methodology, maintaining and troubleshooting equipment, and writing scientific and technical reports and publications.

Agricultural Research Technologist III

GLP coordinator August 2001-May 2003

Responsible for carrying out pesticide residue analysis under GLP regulations, maintaining GLP documentation, participating in designing and managing research projects, method development, instrument maintenance and troubleshooting, writing technical reports. Responsible for planning and organizing laboratory work and supervising laboratory personnel.

Washington State University Irrigated Agricultural Research and Extension Center

Department of Food Science

Research Technologist III April 2001-August 2001

Responsible for carrying out the HPLC and spectrophotometric analysis of wine samples to determine their phenolic profile depending on varying irrigation treatment.

Professional Affiliations

Member of Agrochemical Division, American Chemical Society

Education

M.S. Environmental Biology University of Warsaw, Warsaw, Poland

Presentations and Publications:

- X. D. Chen, E. Culbert, V. Hebert, J. D. Stark. Mixture Effects of the Nonylphenyl Polyethoxylate, R-11 and the Insecticide, Imidacloprid on the Population Growth Rate and Other Parameters of the Crustacean, *Ceriodaphnia dubia*. *Ecotoxicology and Environmental Safety* vol. 73, 2 (2010), pp; 132-137.
- V. Hebert, E. Culbert, J.F. Bruner, V. Jones, M.D. Doerr. Evaluating the Pheromone Release Rate Characteristic of Commercial Mating Disruption Devices. In A. Felsot, K. Racke: *Crop Protection Products for Organic Agriculture. Environmental, Health, and Efficacy Assessment*. pp 144-147, ACS Symposium Series, book chapter, (2006).
- Tomaszewska E, Hebert VR. Evaluation of Pheromone Release from Commercial Mating Disruption Dispensers. *J. Agric. Food Chem.* 2005, *m* 53, 2399-2405.
- LePage, J, Tomaszewska E, Hebert V, Determination of Acephate in Human Urine. *J. AOAC Int.* 2005, *88*, 6, 1788-1792.
- Hebert VR, Tomaszewska E, Brunner JF, Jones VP, and Doerr M, Evaluating the Efficacy of Field Managed Pheromone Control Approaches. *Proceeding of the 225th American Society Meeting on "Certified Organic and Biologically Derived Pesticides."* ed. AF Felsot. (accepted).
- Tomaszewska E., Hebert V., 2003: Analysis of O,S-dimethyl hydrogen phosphorothioate in urine, specific biomarker for methamidophos. *J. Agric. Food Chem.*, in pr
- Hebert V., Tomaszewska E., Brunner J., Jones J., 2003: Evaluating the efficacy of field managed pheromone control approaches. Presentation at National Meetings of American Chemical Society, New Orleans, 2003.
- Tomaszewska E., Hebert V., Brunner J., 2003: Release rate behavior of field applied pheromone dispensers in Codling Moth control. Poster presentation at National Meetings of American Chemical Society, New Orleans, 2003.
- Hebert V., Middleton J., Tomaszewska E., Fox L., 2003: Methodology for quantifying residues of chlorhexidine in raw dairy milk. *J. Agric. Food Chem.* 51, 567-570.
- Tomaszewska E., Hebert V. 2002 Analytical Summary Report: Year 2002 assessment of pheromone disruption compounds from field aged dispensers.
- Middleton J., Hebert V., Fox L., Tomaszewska E., Lakritz J., 2002: Disposition of chlorhexidine in milk following intramammary infusion to therapeutically cease lactation in mastitic mammary quarters.
- Thomas P., Skrzeczkowska* E., Richards K., Crosslin J., Silva M. 2001. Net necrosis prediction and development in storage. Meetings of Extension Services, Pasco, Mosses Lake.
- Culley D., Skrzeczkowska* E., Dean B., Brown C. 2000. Introgression of black spot bruise resistance from *Solanum hjertingii* into cultivated potato. PAA Meetings, Colorado Springs.

- Dean B., Skrzeczkowska* E. 1996. Factors that cause necrosis in potato tubers. Abstract APJ.
- Dean B., Skrzeczkowska* E. 1996. Changes in fructo-polysaccharides and simple sugars in asparagus during spear growth. Acta Hort. 415:189-194.
- Dean B., Skrzeczkowska* E. 1993. Changes in carbohydrates storage roots of young asparagus plants. 8th International Asparagus Symposium Abstracts: 27-28.
- Tomaszewicz G., Skrzeczkowska* E. 1989. Some critical remarks about new and rare to Polish flora desmids from Suwalki Lakeland. Acta Soc. Bot. Pol. 58(1):117-126.

Technical Reports

- E. Culbert, Hebert V. Penoxsulam: Magnitude of the Residue on Pome Fruit. Analytical Summary Report, FEQL Report No. 0213 USDA IR-4 Minor Crop Clearance GLP Report, pp.90. In progress.
- E. Culbert, Hebert V. Penoxsulam: Magnitude of the Residue on Stone Fruit. Analytical Summary Report, FEQL Report No. 0113 USDA IR-4 Minor Crop Clearance GLP Report, pp.105. Submitted 2013
- E. Culbert, Hebert V. Emamectin benzoate: Magnitude of the Residue on Artichokes. Analytical Summary Report, FEQL Report No. 0612 USDA IR-4 Minor Crop Clearance GLP Report, pp.410. In progress.
- E. Culbert, Hebert V. Emamectin benzoate: Magnitude of the Residue on Cherry. Analytical Summary Report, FEQL Report No. 0112 USDA IR-4 Minor Crop Clearance GLP Report, pp.500. Submitted 2013.
- E. Culbert, Hebert V. Emamectin benzoate: Magnitude of the Residue on Basil and Chives. Analytical Summary Report, FEQL Report No. 0611 USDA IR-4 Minor Crop Clearance GLP Report, pp.639. Submitted 2013
- E. Culbert, Hebert V. Azoxystrobin: Magnitude of the Residue on Cranberry. Analytical Summary Report, FEQL Report No. 0311, USDA IR-4 Minor Crop Clearance GLP Report, pp.157. Submitted 2012.
- E. Culbert., Hebert V. Azoxystrobin: Magnitude of the Residue on Caneberry. Analytical Summary Report, FEQL Report No. 0211, USDA IR-4 Minor Crop Clearance GLP Report, pp. 168. Submitted 2012.
- E. Culbert, Hebert V. Flumioxazin: Magnitude of the Residue on Clover (seed). Analytical Summary Report, FEQL Report No. 0111, USDA IR-4 Minor Crop Clearance GLP Report, pp 99, Submitted 2011.
- E. Culbert, Hebert V. Flonicamid: Magnitude of the Residue on Alfalfa and Red Clover. Analytical Summary Report, FEQL Report No. 0409, USDA IR-4 Minor Crop Clearance GLP Report, pp 297, Submitted 2011.
- E. Culbert, Hebert V. Flonicamid: Magnitude of the Residue on Canola. Analytical Summary Report, FEQL Report No. 1407, USDA IR-4 Minor Crop Clearance GLP Report, pp 192, Submitted 2010.
- E. Culbert. Hexythiazox: Magnitude of the Residue on Peppers. Analytical Summary Report, FEQL Report No. 0109, USDA IR-4 Minor Crop Clearance GLP Report, pp 80, Submitted 2010.

- E. Culbert. Quinclorac: Magnitude of the Residue on Rhubarb. Analytical Summary Report, FEQL Report No. 0210, USDA IR-4 Minor Crop Clearance GLP Report, pp 60, Submitted 2010.
- E. Culbert. Hexythiazox: Magnitude of the Residue on Tomatoes. Analytical Summary Report, FEQL Report No. 0307, USDA IR-4 Minor Crop Clearance GLP Report, pp 79, Submitted 2010.
- E. Culbert. Imidacloprid: Magnitude of the Residue on Oysters. Analytical Summary Report, FEQL Report No. 0707, USDA IR-4 Minor Crop Clearance GLP Report, pp 82, Submitted 2009.
- E. Culbert, V. Hebert. Kasugamycin: Magnitude of the Residue on Apple. Analytical Summary Report, FEQL Report No. 0407, USDA IR-4 Minor Crop Clearance GLP Report, pp 137, Submitted 2009.
- E. Culbert. Pendimethalin: Magnitude of the Residue on Mustard. Analytical Summary Report, FEQL Report No. 0108, USDA IR-4 Minor Crop Clearance GLP Report, Submitted (2009).
- E. Culbert. Pendimethalin: Magnitude of the Residue on Lettuce. Analytical Summary Report, FEQL Report No. 0607, USDA IR-4 Minor Crop Clearance GLP Report, pp 110 (2008).
- E. Culbert, V. Hebert. Quantitation of Malathion and Diazinon in Water. Analytical Summary Report, FEQL Report No. 0508, pp 35 (2008).
- E. Culbert. Quantitation of Imidacloprid in Water. Analytical Summary Report, FEQL Report No. 0308, pp 28 (2008).
- E. Culbert, V. Hebert. Kasugamycin: Magnitude of the Residue on Pear. Analytical Summary Report, FEQL Report No. 0706, USDA IR-4 Minor Crop Clearance GLP Report, pp 99 (2007).
- E. Culbert, V. Hebert. Chemical Analysis for Chlorpyrifos in Drainage Water. Technical Report, FEQL Report No. 1206, pp 26 (2006).
- E. Culbert. Oxamyl: Magnitude of the Residue on Caneberry. Analytical Summary Report, FEQL Report No. 0406, USDA IR-4 Minor Crop Clearance GLP Report, pp 80 (2006).
- E. Culbert. Propiconazole: Magnitude of the Residue on Mint. Analytical Summary Report, FEQL Report No. 0106, USDA IR-4 Minor Crop Clearance GLP Report, pp 74 (2006).
- E. Culbert, J. LePage. S-Metolachlor: Magnitude of Residue on Blueberry, Analytical Summary Report, FEQL Report No. 0404, USDA IR-4 Minor Crop Clearance GLP Report, pp 140 (2005).
- E. Culbert**, V. Heber. Determination of lambda-cyhalothrin in/on asparagus. Syngenta Crop Protection product understanding report. Report No. FEQL-NG-0305, (2005).
- J. LePage, E. Culbert, V. Hebert. Quantitation of Carbaryl, Carbofuran, Chlorpyrifos, Malathion, and Diazinon in Water. NOAA Analytical Summary, Report No. FEQL-NG-0205, pp 68, (2005).
- E. Tomaszewska, J. LePage, V. Hebert. Evaluation of Airborne Pesticide Residues in Air: Wilbur Ellis Pesticide Warehouse Fire Study. Washington State Department of Ecology, Report No. FEQL-NG-0105, pp 50 (2005).
- J LePage, E. Tomaszewska V. Hebert. Year 2004 evaluation of release rates from field-aged dispensers by volatile trapping. Report No. FEQL-NG-0203, pp 47 (2005)
- E. Tomaszewska, V.R. Hebert. Lambda-cyhalothrin Magnitude of the Residue. Report No. FEQL 0103. USDA IR-4 Minor Crop Clearance GLP Report: 78 pp (2004).

- E. Tomaszewska and V.R. Hebert. Hexythiazox on potato Magnitude of the Residue. Report No. FEQL 0203. USDA IR-4 Minor Crop Clearance GLP Report: 80 pp (2004).
- Tomaszewska and V.R. Hebert. Quantitation of spray drift and human exposure from field applications of Monitor® on potatoes. UW technical report: Analytical Summary Report FEQL 1202. 45 pp. (2003).
- E. Tomaszewska. Buprofezin: Magnitude of the Residue on Pears, Report No. FEQL 0101, USDA IR-4 Minor Crop Clearance GLP Report: pp 62, (2002).
- E. Tomaszewska , V.R. Hebert. Year 2002 Assessment of Pheromone Disruption Compounds from Field Aged Dispensers. Report No. FEQL-NG-0201. 26 pp (2002).
- E. Tomaszewska , V.R. Hebert. Year 2002 Assessment of Pheromone Disruption Compounds from Field Aged Dispensers. Report No. FEQL-NG-0201. 26 pp (2002).
- E. Tomaszewska , V.R. Hebert. Year 2001 Assessment of Pheromone Disruption Compounds from Field Aged Dispensers. Report No. FEQL-NG-0902. 25 pp (2002).
- Tomaszewska E, Hebert V. 2001. Analytical Summary Report: Assessment of pheromone disruption compounds from field-aged dispensers.
- Tomaszewska E. 2001. Analytical Summary Report: Buprofezin: Magnitude of the residue on pears (IR-4 report)

* Name change from Skrzeczkowska to Tomaszewska in 2000.

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