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Daniel S. Munther* (munther@mathstat.yorku.ca), Department of Mathematics and Statistics, N520 Ross, 4700 Keele Street, Toronto, Ontario M3J1P3, Canada, and **Jianhong Wu**. *Enhanced surveillance on food-borne disease outbreaks: dynamics of cross-contamination in biocidal wash procedure*. Preliminary report.

I will discuss some recent food-borne disease outbreaks associated to fresh produce, present a 3-stage compartment model of the wash process for fresh produce at a processing plant and discuss an application of the model to *E. Coli* contamination of romaine lettuce. Furthermore, I will talk about how the model can give insight into source diagnoses of the contamination and be used to compare various wash procedures. (Received September 24, 2012)