

**From:** Gary R. Brown, P.E. [mailto:mtammaro@rtenv.ccsend.com] **On Behalf Of** Gary R. Brown, P.E.  
**Sent:** Monday, July 02, 2012 1:01 PM  
**To:** mtammaro@rtenv.com  
**Subject:** SPECIFIC BACTERIA LINKED TO INDOOR MOLD WATER-DAMAGE AND MOLD IDENTIFIED

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## SPECIFIC BACTERIA LINKED TO INDOOR MOLD WATER-DAMAGE AND MOLD IDENTIFIED

Press Release

In a new study, a University of Cincinnati (UC) environmental health research team found evidence linking two specific strains of bacteria - *Stenotrophomonas* and *Mycobacterium* - to indoor mold from water damage. The research is part of the U.S. Department of Housing and Urban Development's investment in research to protect the health of children from hazards in the home.

"If we are going to understand the role of indoor bacteria in human health, we must be able to identify and quantify the relevant bacterial species contributing to the health problems," says Atin Adhikari, PhD, assistant professor of environmental health at the UC College of Medicine and principal investigator of the study.

"The association between bacterial contamination and respiratory health has lagged behind mold studies because it is difficult to determine which species of bacteria are growing in homes and most of the bacterial species are non-culturable and not identified yet," adds Adhikari. "These new data will help us more accurately target and combat the bacteria and to explore synergistic health effects of bacteria and molds growing in water damaged homes."

The UC-based team was to report its findings June 18, 2012, at the American Society for Microbiology meeting in San Francisco.

For this study, Adhikari and UC postdoctoral fellow Eric Kettleson, PhD, analyzed samples collected from 42 homes from the Cincinnati Childhood Allergy and Air Pollution Study, a National Institute of Environmental Health Sciences-funded project examining the long-term effects of environmental exposures on respiratory health and allergy development in children.

Included homes fell into one of two categories -- "high mold" or "low mold" - based on previously reported environmental relative moldiness index (ERMI), a DNA-based mold level analysis tool developed by the U.S. Environmental Protection Agency (EPA) that combines results of the analysis of 36 different types of mold into one index to describe a home's cumulative mold burden.

The team then compared the ERMI values and types of bacteria found in both high-

and low-mold homes in an effort to better understand the environmental sources and home characteristics that influence indoor bacterial contamination.

They found strong correlations between Mycobacterium and visible mold and also between Stenotrophomonas and environmental relative moldiness index.

"Stenotrophomonas maltophilia - an emerging multidrug-resistant global opportunistic pathogen - was isolated from numerous environmental sources. Surprisingly, it was never assessed quantitatively and may cause inhalation exposure risks to occupants. Stenotrophomonas maltophilia is the first bacterial species associated with higher ERMI values in homes," adds Kettleison.

Co-authors of this study include Stephen Vesper, PhD, of the U.S. Environmental Protection Agency (EPA); and Tiina Reponen, PhD, Sergey Grinshpun, PhD, and Sudhir Kumar, PhD of the Department of Environmental Health.

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215 West Church Road  
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Pureland Complex, Suite 306  
510 Heron Drive, P.O. Box 521  
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### **Southwest Pennsylvania**

591 East Maiden Street  
Washington, PA 15301

Phone: (724) 206-0348 / FAX: (724) 206-0380

E-mail: [RTENV@AOL.COM](mailto:RTENV@AOL.COM)

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