

---

Online supporting information for the following article published in *Indoor Air*

DOI: **TO BE ADDED BY THE PRODUCTION EDITOR**

**Bacteria in a water-damaged building: associations of actinomycetes and nontuberculous mycobacteria with respiratory health in occupants**

Ju-Hyeong Park<sup>#1</sup>, Jean M. Cox-Ganser<sup>1</sup>, Sandra K. White<sup>1</sup>, A. Scott Laney<sup>2,1</sup>, Steve M. Caulfield<sup>3</sup>, William A. Turner<sup>3</sup>, Austin D. Sumner<sup>2,4</sup>, Kathleen Kreiss<sup>1</sup>

1. Division of Respiratory Disease Studies, National Institute for Occupational Safety and Health, Morgantown, WV, USA; 2. Vermont Department of Health, Burlington, VT, USA; 3. Turner Building Science & Design, LLC, Harrison, ME, USA; 4. University of Vermont Health Network Occupational Medicine, Berlin, VT, USA

# Corresponding author: Dr. Ju-Hyeong Park, Division of Respiratory Disease Studies, National Institute for Occupational Safety and Health, 1095 Willowdale Road, Morgantown, WV 26505, USA.. Email: [gzp8@cdc.gov](mailto:gzp8@cdc.gov); Fax: 304-285-5967

Disclaimer: The findings and conclusions in this report are those of the authors and do not necessarily represent the views of the National Institute for Occupational Safety and Health.

Supplement Table 1. Fungal species identified in floor dust and liquid and sludge of heat pump system

Fungal species	Positive sample (%), dust	Positive sample (%), liquid	Positive sample (%), sludge	Fungal species	Positive sample (%), dust	Positive sample (%), liquid	Positive sample (%), sludge
<i>Acremonium strictum</i>	3	1	1	<i>Paecilomyces lilacinus</i>	2	90	92
<i>Alternaria alternata</i>	23	–	–	<i>Paecilomyces marquandii</i>	1	4	12
<i>Aspergillus caespitosus</i>	19	–	–	<i>Paecilomyces variotii</i>	13	3	3
<i>Aspergillus flavus</i>	5	–	–	<i>Penicillium brevicompactum</i>	1	–	–
<i>Aspergillus fumigatus</i>	5	1	1	<i>Penicillium chrysogenum</i>	89	–	–
<i>Aspergillus glaucus</i>	21	–	–	<i>Penicillium citrinum</i>	3	7	8
<i>Aspergillus niger</i>	17	1	–	<i>Penicillium commune</i>	1	–	–
<i>Aspergillus ochraceus</i>	17	1	3	<i>Penicillium corylophilum</i>	8	30	39
<i>Aspergillus penicillioides</i>	7	–	–	<i>Penicillium glabrum</i>	2	–	–
<i>Aspergillus sydowii</i>	26	1	3	<i>Penicillium implicatum</i>	–	10	8
<i>Aspergillus terreus</i>	1	–	–	<i>Penicillium oxalicum</i>	–	–	1
<i>Aspergillus ustus</i>	21	3	1	<i>Penicillium purpurogenum</i>	5	34	27
<i>Aspergillus versicolor</i>	33	10	16	<i>Penicillium roqueforti</i>	2	–	–
<i>Aureobasidium pullulans</i>	42	1	–	<i>Penicillium simplicissimum</i>	–	8	19
<i>Botrytis cinerea</i>	7	–	–	<i>Penicillium species</i>	5	3	3
<i>Botryotrichum species</i>	1	–	–	<i>Penicillium variabile</i>	–	1	3
<i>Chaetomium globosum</i>	25	–	–	<i>Phoma coelomyces</i>	63	1	1
<i>Chlamydo-spore former</i>	–	–	1	<i>Pithomyces chartarum</i>	4	–	–
<i>Cladosporium cladosporioides</i>	–	–	1	<i>Rhizopus stolonifer</i>	5	–	–
<i>Cladosporium herbarum</i>	4	–	–	<i>Scopulariopsis brevicaulis</i>	1	–	–
<i>Cladosporium sphaerospermum</i>	79	1	–	<i>Scopulariopsis koningii</i>	1	–	–
<i>Cunninghamella species</i>	1	–	–	<i>Stachybotrys chartarum</i>	6	–	–
<i>Curvularia lunata</i>	4	–	–	<i>Syncephalastrum racemosum</i>	1	–	–
<i>Epicoccum nigrum</i>	58	–	–	<i>Thysanophora penicillioides</i>	–	8	11
<i>Eurotium amstelodami</i>	9	–	–	<i>Trichoderma harzianum</i>	9	–	1
<i>Exophiala jeanselmei</i>	3	–	–	<i>Ulocladium chartarum</i>	23	–	–
<i>Fusarium oxysporum</i>	10	–	–	<i>Wallemia sebi</i>	5	–	–
<i>Fusarium solani</i>	4	3	3	Yeasts, other	38	7	3
<i>Mucor plumbeus</i>	19	1	3	Yeasts, <i>Sporobolomyces</i> species	13	–	–
Non-sporulating fungi	14	7	–	–	–	–	–