



Monomoy Air Quality Testing Report

Reason for Testing: Periodic precautionary air testing

Date: October 14, 2025

Description: Air sample mold tests

Locations: MRMS Rooms A106, B125, B136, D125, E103, E112, E119, E212, Control

Conducted By: Target Inspections

Summary of Findings: Samples in classrooms ranged from 267-862 spores per cubic meter, except for room D125 at 1,427. The outdoor control sample was 3,242.

District Response: No remediation is required for the majority of spaces. According to the testing company: "Remediation is only recommended when indoor air quality samples have individual spore counts both above external ambient levels and above the recommended action level of 1000 spores per cubic meter of air. If both criteria have not been met, then No Remediation is required." This time of year, there are very high levels of mold spores in the ambient environment outside of the school building (with the control sample of air from outside of the school containing over 3,000 spores per cubic meter). There was only one interior space with spore counts per cubic meter over 1,000 (room D125 with 1,427 spore/cubic meter) – a dehumidifier has been added to the room, humidity levels are being monitored (with the windows closed), and the space will be deep cleaned.



October 20, 2025

Client Name and Address:

Target Inspections
P.O. Box 444
West Dennis, MA 02670

Re: Microbial Analytical Results from: Monomoy Middle School; 425 Crowell Rd; Chatham, MA

H2O Laboratory Number:05201

Dear Target Inspections,

We at H2O EnviroComp would like to thank you for your recent business. Samples were received on 10/15/2025 from a job located at Monomoy Middle School; 425 Crowell Rd; Chatham, MA. The final report is enclosed for the following samples: 1-9.

Please note that environmental conditions should be taken into account when interpreting the associated data and sampling at any other time period may produce differing results. H2O EnviroComp follows prescribed procedures for the analysis of air cassettes and direct samples to identify and quantify particulate and microbiological contamination.

These results only pertain to this job and should not be used in the interpretation of any other job. This report may be reproduced only in its entirety. H2O EnviroComp is an AIHA Proficient Laboratory (AIHA Lab ID: 290178).

If you have any questions please do not hesitate to call me at the number below.

Regards,

A handwritten signature in dark ink, appearing to read 'Steven Grevelis', is written over a light blue horizontal line.

Steven Grevelis
Laboratory Director

Enclosures:

- Analytical results
- Chain of Custody
- Fungal glossary

Background Density Effects on Spore Concentrations:

Level 1: No bias.

Level 2: May be biased to the low side.

Level 3: Most likely biased to the low side.

Level 4: High likelihood the results are biased to the low side.

Level 5: Complete coverage. Sample is not able to be analyzed.



H2O EnviroComp
Indoor Air Quality Report
Air Sample Report

24 School Street
P.O. Box 444
West Dennis, MA 02670
Phone 508.737.4289

Company: Target Inspections **Inspector:** Steven Grevelis **Date Sampled:** 10/14/2025

Contact: Steven Grevelis **Project Name:** Monomoy Middle School; 425 Crowell Rd; Chatham, MA **Date Received:** 10/15/2025

Address: P.O. Box 444 **Project Notes:** Client Project Number: 837M **Date Analyzed:** 10/20/2025

City, ST, Zip: West Dennis, MA 02670 **Lab No:** 05201 **Date Reported:** 10/20/2025

Phone: (888) - 280- 2108 **Report Status:** Version 1.0

Mold Identification by Samples

Sample Number: 05201-01 **Sample Medium:** Allergenco-D
Client Sample ID: 00112177 **Sampling Rate:** 15L/Min for 5 Minutes
Magnification: 600 X **Total Liters:** 75
Location: Room A106

Sample Data:

Type:	Raw Count	Count/ Cubic Meter	Type:	Raw Count	Count/ Cubic Meter
Ascospores, Non-specified	ND	ND	Smuts	10	297
Basidiospores, Non-specified	5	149	Rusts	ND	ND
Aspergillus/Penicillium-Like	4	119	Spegazzinia	ND	ND
Cladosporium	2	59	Stachybotrys	ND	ND
Chaetomium	ND	ND	Ulocladium	ND	ND
Ganoderma	ND	ND	Nigrospora	ND	ND
Pithomyces	ND	ND	Un-ID Spore	ND	ND
Alternaria	ND	ND	Pollen	ND	ND
Cercospora-like	ND	ND	Hyphal Frags	1	30
Curvularia	ND	ND	Insect Frags	ND	ND
Epicoccum	ND	ND			
Oidium	ND	ND			

Sample Data Comments:

Skin Fragment Prevalence; 1 (Low) to 4 (High):	2	
Background Density; 1 (Low) to 5 (Overloaded):	1	
Total Fungal Raw Count:	21	
Analytical Sensitivity (Spore/Cubic Meter):	30	
Number of Traverses:	17	
Total Fungal Count (Spore/Cubic Meter):	624	

Reporting Notes: N/A = Not Applicable
ND = None Detected
* = Type detected observed in clumps

Analyzed by: Steven Grevelis
Analyzed Date: 10/20/2025



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City, ST, Zip: West Dennis, MA 02670 **Lab No:** 05201 **Date Reported:** 10/20/2025

Phone: (888) - 280- 2108 **Report Status:** Version 1.0

Mold Identification by Samples

Sample Number: 05201-02 **Sample Medium:** Allergenco-D
Client Sample ID: 00112088 **Sampling Rate:** 15L/Min for 5 Minutes
Magnification: 600 X **Total Liters:** 75
Location: Room B125

Sample Data:

Type:	Raw Count	Count/ Cubic Meter	Type:	Raw Count	Count/ Cubic Meter
Ascospores, Non-specified	1	30	Smuts	2	59
Basidiospores, Non-specified	5	149	Rusts	ND	ND
Aspergillus/Penicillium-Like	3	89	Spegazzinia	ND	ND
Cladosporium	ND	ND	Stachybotrys	ND	ND
Chaetomium	ND	ND	Ulocladium	ND	ND
Ganoderma	ND	ND	Nigrospora	ND	ND
Pithomyces	ND	ND	Un-ID Spore	ND	ND
Alternaria	ND	ND	Pollen	ND	ND
Cercospora-like	ND	ND	Hyphal Frags	ND	ND
Curvularia	ND	ND	Insect Frags	ND	ND
Epicoccum	ND	ND			
Oidium	ND	ND			

Sample Data Comments:

Skin Fragment Prevalence; 1 (Low) to 4 (High):	2	
Background Density; 1 (Low) to 5 (Overloaded):	1	
Total Fungal Raw Count:	11	
Analytical Sensitivity (Spore/Cubic Meter):	30	
Number of Traverses:	17	
Total Fungal Count (Spore/Cubic Meter):	327	

Reporting Notes: N/A = Not Applicable
ND = None Detected
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City, ST, Zip: West Dennis, MA 02670 **Lab No:** 05201 **Date Reported:** 10/20/2025

Phone: (888) - 280- 2108 **Report Status:** Version 1.0

Mold Identification by Samples

Sample Number: 05201-03 **Sample Medium:** Allergenco-D
Client Sample ID: 00067813 **Sampling Rate:** 15L/Min for 5 Minutes
Magnification: 600 X **Total Liters:** 75
Location: Room B136

Sample Data:

Type:	Raw Count	Count/ Cubic Meter	Type:	Raw Count	Count/ Cubic Meter
Ascospores, Non-specified	ND	ND	Smuts	1	30
Basidiospores, Non-specified	4	119	Rusts	ND	ND
Aspergillus/Penicillium-Like	2	59	Spegazzinia	ND	ND
Cladosporium	1	30	Stachybotrys	ND	ND
Chaetomium	ND	ND	Ulocladium	ND	ND
Ganoderma	ND	ND	Nigrospora	ND	ND
Pithomyces	1	30	Un-ID Spore	ND	ND
Alternaria	ND	ND	Pollen	ND	ND
Cercospora-like	ND	ND	Hyphal Frags	ND	ND
Curvularia	ND	ND	Insect Frags	ND	ND
Epicoccum	ND	ND			
Oidium	ND	ND			

Sample Data Comments:

Skin Fragment Prevalence; 1 (Low) to 4 (High):	1
Background Density; 1 (Low) to 5 (Overloaded):	1
Total Fungal Raw Count:	9
Analytical Sensitivity (Spore/Cubic Meter):	30
Number of Traverses:	17
Total Fungal Count (Spore/Cubic Meter):	267

Reporting Notes: N/A = Not Applicable
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Mold Identification by Samples

Sample Number: 05201-04 **Sample Medium:** Allergenco-D
Client Sample ID: 00112268 **Sampling Rate:** 15L/Min for 5 Minutes
Magnification: 600 X **Total Liters:** 75
Location: Room D125

Sample Data:

Type:	Raw Count	Count/ Cubic Meter	Type:	Raw Count	Count/ Cubic Meter
Ascospores, Non-specified	2	59	Smuts	1	30
Basidiospores, Non-specified	6	178	Rusts	ND	ND
Aspergillus/Penicillium-Like	35	1040	Spegazzinia	ND	ND
Cladosporium	4	119	Stachybotrys	ND	ND
Chaetomium	ND	ND	Ulocladium	ND	ND
Ganoderma	ND	ND	Nigrospora	ND	ND
Pithomyces	ND	ND	Un-ID Spore	ND	ND
Alternaria	ND	ND	Pollen	ND	ND
Cercospora-like	ND	ND	Hyphal Frags	1	30
Curvularia	ND	ND	Insect Frags	ND	ND
Epicoccum	ND	ND			
Oidium	ND	ND			

Sample Data Comments:

Skin Fragment Prevalence; 1 (Low) to 4 (High):	1
Background Density; 1 (Low) to 5 (Overloaded):	1
Total Fungal Raw Count:	48
Analytical Sensitivity (Spore/Cubic Meter):	30
Number of Traverses:	17
Total Fungal Count (Spore/Cubic Meter):	1427

Reporting Notes: N/A = Not Applicable
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Phone: (888) - 280- 2108 **Report Status:** Version 1.0

Mold Identification by Samples

Sample Number: 05201-05 **Sample Medium:** Allergenco-D
Client Sample ID: 00112409 **Sampling Rate:** 15L/Min for 5 Minutes
Magnification: 600 X **Total Liters:** 75
Location: Room E103

Sample Data:

Type:	Raw Count	Count/ Cubic Meter	Type:	Raw Count	Count/ Cubic Meter
Ascospores, Non-specified	ND	ND	Smuts	16	476
Basidiospores, Non-specified	1	30	Rusts	ND	ND
Aspergillus/Penicillium-Like	11	327	Spegazzinia	ND	ND
Cladosporium	1	30	Stachybotrys	ND	ND
Chaetomium	ND	ND	Ulocladium	ND	ND
Ganoderma	ND	ND	Nigrospora	ND	ND
Pithomyces	ND	ND	Un-ID Spore	ND	ND
Alternaria	ND	ND	Pollen	ND	ND
Cercospora-like	ND	ND	Hyphal Frags	ND	ND
Curvularia	ND	ND	Insect Frags	ND	ND
Epicoccum	ND	ND			
Oidium	ND	ND			

Sample Data Comments:

Skin Fragment Prevalence; 1 (Low) to 4 (High):	1
Background Density; 1 (Low) to 5 (Overloaded):	2
Total Fungal Raw Count:	29
Analytical Sensitivity (Spore/Cubic Meter):	30
Number of Traverses:	17
Total Fungal Count (Spore/Cubic Meter):	862

Reporting Notes: N/A = Not Applicable
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Phone: (888) - 280- 2108 **Report Status:** Version 1.0

Mold Identification by Samples

Sample Number: 05201-06 **Sample Medium:** Allergenco-D
Client Sample ID: 00112420 **Sampling Rate:** 15L/Min for 5 Minutes
Magnification: 600 X **Total Liters:** 75
Location: Room E112

Sample Data:

Type:	Raw Count	Count/ Cubic Meter	Type:	Raw Count	Count/ Cubic Meter
Ascospores, Non-specified	ND	ND	Smuts	4	119
Basidiospores, Non-specified	1	30	Rusts	ND	ND
Aspergillus/Penicillium-Like	9	267	Spegazzinia	ND	ND
Cladosporium	2	59	Stachybotrys	ND	ND
Chaetomium	ND	ND	Ulocladium	ND	ND
Ganoderma	ND	ND	Nigrospora	ND	ND
Pithomyces	ND	ND	Un-ID Spore	ND	ND
Alternaria	ND	ND	Pollen	ND	ND
Cercospora-like	ND	ND	Hyphal Frags	1	30
Curvularia	ND	ND	Insect Frags	ND	ND
Epicoccum	ND	ND			
Oidium	ND	ND			

Sample Data Comments:

Skin Fragment Prevalence; 1 (Low) to 4 (High):	1
Background Density; 1 (Low) to 5 (Overloaded):	1
Total Fungal Raw Count:	16
Analytical Sensitivity (Spore/Cubic Meter):	30
Number of Traverses:	17
Total Fungal Count (Spore/Cubic Meter):	476

Reporting Notes: N/A = Not Applicable
ND = None Detected
* = Type detected observed in clumps

Analyzed by: Steven Grevelis
Analyzed Date: 10/20/2025



H2O EnviroComp
Indoor Air Quality Report
Air Sample Report

24 School Street
P.O. Box 444
West Dennis, MA 02670
Phone 508.737.4289

Company: Target Inspections **Inspector:** Steven Grevelis **Date Sampled:** 10/14/2025

Contact: Steven Grevelis **Project Name:** Monomoy Middle School; 425 Crowell Rd; Chatham, MA **Date Received:** 10/15/2025

Address: P.O. Box 444 **Project Notes:** Client Project Number: 837M **Date Analyzed:** 10/20/2025

City, ST, Zip: West Dennis, MA 02670 **Lab No:** 05201 **Date Reported:** 10/20/2025

Phone: (888) - 280- 2108 **Report Status:** Version 1.0

Mold Identification by Samples

Sample Number: 05201-07 **Sample Medium:** Allergenco-D
Client Sample ID: 00112272 **Sampling Rate:** 15L/Min for 5 Minutes
Magnification: 600 X **Total Liters:** 75
Location: Room E119

Sample Data:

Type:	Raw Count	Count/ Cubic Meter	Type:	Raw Count	Count/ Cubic Meter
Ascospores, Non-specified	1	30	Smuts	9	267
Basidiospores, Non-specified	1	30	Rusts	ND	ND
Aspergillus/Penicillium-Like	5	149	Spegazzinia	ND	ND
Cladosporium	ND	ND	Stachybotrys	ND	ND
Chaetomium	ND	ND	Ulocladium	ND	ND
Ganoderma	ND	ND	Nigrospora	ND	ND
Pithomyces	ND	ND	Un-ID Spore	ND	ND
Alternaria	ND	ND	Pollen	ND	ND
Cercospora-like	ND	ND	Hyphal Frags	1	30
Curvularia	ND	ND	Insect Frags	ND	ND
Epicoccum	ND	ND			
Oidium	ND	ND			

Sample Data Comments:

Skin Fragment Prevalence; 1 (Low) to 4 (High):	2	
Background Density; 1 (Low) to 5 (Overloaded):	1	
Total Fungal Raw Count:	16	
Analytical Sensitivity (Spore/Cubic Meter):	30	
Number of Traverses:	17	
Total Fungal Count (Spore/Cubic Meter):	476	

Reporting Notes: N/A = Not Applicable
ND = None Detected
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Analyzed Date: 10/20/2025



H2O EnviroComp
Indoor Air Quality Report
Air Sample Report

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Phone: (888) - 280- 2108 **Report Status:** Version 1.0

Mold Identification by Samples

Sample Number: 05201-08 **Sample Medium:** Allergenco-D
Client Sample ID: 00112416 **Sampling Rate:** 15L/Min for 5 Minutes
Magnification: 600 X **Total Liters:** 75
Location: Room E212

Sample Data:

Type:	Raw Count	Count/ Cubic Meter	Type:	Raw Count	Count/ Cubic Meter
Ascospores, Non-specified	1	30	Smuts	13	386
Basidiospores, Non-specified	2	59	Rusts	ND	ND
Aspergillus/Penicillium-Like	4	119	Spegazzinia	ND	ND
Cladosporium	ND	ND	Stachybotrys	ND	ND
Chaetomium	ND	ND	Ulocladium	ND	ND
Ganoderma	ND	ND	Nigrospora	ND	ND
Pithomyces	ND	ND	Un-ID Spore	ND	ND
Alternaria	ND	ND	Pollen	ND	ND
Cercospora-like	ND	ND	Hyphal Frags	2	59
Curvularia	1	30	Insect Frags	ND	ND
Epicoccum	ND	ND			
Oidium	ND	ND			

Sample Data Comments:

Skin Fragment Prevalence; 1 (Low) to 4 (High):	1	
Background Density; 1 (Low) to 5 (Overloaded):	1	
Total Fungal Raw Count:	21	
Analytical Sensitivity (Spore/Cubic Meter):	30	
Number of Traverses:	17	
Total Fungal Count (Spore/Cubic Meter):	624	

Reporting Notes: N/A = Not Applicable
ND = None Detected
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Analyzed by: Steven Grevelis
Analyzed Date: 10/20/2025



H2O EnviroComp
Indoor Air Quality Report
Air Sample Report

24 School Street
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Phone: (888) - 280- 2108 **Report Status:** Version 1.0

Mold Identification by Samples

Sample Number: 05201-09 **Sample Medium:** Allergenco-D
Client Sample ID: 00067828 **Sampling Rate:** 15L/Min for 5 Minutes
Magnification: 600 X **Total Liters:** 75
Location: Control

Sample Data:

Type:	Raw Count	Count/ Cubic Meter	Type:	Raw Count	Count/ Cubic Meter
Ascospores, Non-specified	51	2147	Smuts	1	42
Basidiospores, Non-specified	22	926	Rusts	ND	ND
Aspergillus/Penicillium-Like	ND	ND	Spegazzinia	ND	ND
Cladosporium	3	126	Stachybotrys	ND	ND
Chaetomium	ND	ND	Ulocladium	ND	ND
Ganoderma	ND	ND	Coprinus	ND	ND
Pithomyces	ND	ND	Un-ID Spore	ND	ND
Alternaria	ND	ND	Pollen	ND	ND
Cercospora-like	ND	ND	Hyphal Frags	ND	ND
Curvularia	ND	ND	Insect Frags	ND	ND
Epicoccum	ND	ND			
Memnoniella	ND	ND			

Sample Data Comments:

Skin Fragment Prevalence; 1 (Low) to 4 (High):	1	
Background Density; 1 (Low) to 5 (Overloaded):	1	
Total Fungal Raw Count:	77	
Analytical Sensitivity (Spore/Cubic Meter):	42	
Number of Traverses:	12	
Total Fungal Count (Spore/Cubic Meter):	3242	

Reporting Notes: N/A = Not Applicable
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Analyzed by: Steven Grevelis
Analyzed Date: 10/20/2025



H2O EnviroComp
24 School Street
P.O. Box 444
West Dennis, MA 02670

Microbial Chain of Custody
Version 1.0
4/9/2012

Client: Target Inspections		Phone: (888) - 280- 2108		Client Address: 24 School Street, P.O. Box 444, West Dennis, MA 02670		
Project Name: Monomoy Middle School		Project Number: 837M				
Proj. Address: 245 Crowell Road		Town: Chatham		State: MA Zip Code		
Sampled By: Steven Grevelis		Email Address(es) to Send Report to:		H2O Lab ID:		
Date: 10/14/2025		Project Manager: Steven Grevelis		05201		
Turn Around Time: ☐ Rush ☐ 24 Hour ☐ 48 Hour ☒ 5 Day		Email 1: steve@targetinspections.com				
Email 2:						
SAMPLE ID	LOCATION	Sample Type (Air, Tape Lift, Bulk)	Volume Data			Sample Media (Air-O-Cell, Allergenco-D, etc)
			Rate (l/min)	Time (min)	Volume	
00112177	Room A106	Air	15	5	75	Allergenco-D
00112088	Room B125	Air	15	5	75	Allergenco-D
00067813	Room B136	Air	15	5	75	Allergenco-D
00112268	Room D125	Air	15	5	75	Allergenco-D
00112409	Room E103	Air	15	5	75	Allergenco-D
00112420	Room E112	Air	15	5	75	Allergenco-D
00112272	Room E119	Air	15	5	75	Allergenco-D
00112416	Room E212	Air	15	5	75	Allergenco-D
00067828	Control	Air	15	5	75	Allergenco-D
	Note - due to scheduling, the client approved sampling during a rain event					

Relinquished by: Steven Grevelis

Date/Time: 10/15/2025

Page 1 of 1

Received by: H2O EnviroComp

Date/Time: 10/15/2025



H2O EnviroComp Fungal Glossary

Note: The following list is not inclusive of all molds and fungi.

Absidia: Found outdoors in soil and decaying vegetation. Found indoors in stored grains and other foods. Absidia is recognized as an allergen. In immunocompromised patients pulmonary invasions, the meninges (brain or spinal cord), and kidney infections can result from exposure.

Acromonium: Found outdoors in decaying or dead plant materials. Found indoors in food and wet, cellulose based building materials. Grows well indoors when there is a high water content (>0.90 Aw). Type I (hay fever, asthma) and Type III (hypersensitivity pneumonitis) allergen. Known to cause infections in immunodeficient patients and persons with wound injuries. There are 100 known species.

Alternaria: Common saprobe and pathogen of plants. Typically found on plant tissue, decaying wood, and foods, soil and air outdoors. Indoors it is found near condensation (window frames, showers), house dust (in carpets, and air). It also colonizes building supplies, computer disks, cosmetics, leather, optical instruments, paper, sewage, stone monuments, textiles, wood pulp, and jet fuel. Type I allergies (hay fever, asthma) and Type III (hypersensitivity pneumonitis). Alternaria spores are one of the most common and potent indoor and outdoor airborne allergens. Additionally, Alternaria sensitization has been determined to be one of the most important factors in the onset of childhood asthma. Synergy with Cladosporium or Ulocladium may increase the severity of symptoms.

Arthrinium: Found outdoors in decaying plant material and soil. Found indoors on cellulose containing materials. *Arthrinium sphaerospermum* is recognized as an allergen.

Ascospores: Ascospores are found everywhere in nature. Ascospores are the result of sexual reproduction and produced in a sac-like structure called an ascus. All ascospores belong to members of the Phylum Ascomycota, which encompasses a plethora of genera worldwide.

Aspergillus/Penicillium: These species are common contaminants on various substances. This organism causes food spoilage and is an indicated organism for dampness indoors. Some of these species are known to produce mycotoxins. If health effects are noticed by occupants or workers, in an environment that evidences an amplification of Penicillium, identification of species is helpful. These especially opportunistic pathogens may cause respiratory infections. Some varieties produce mycotoxins and aflatoxins.

Basidiospores: Found outdoors in gardens forests and woodlands. Plant pathogen. Indoors it is the agent of “dry rot” and other fungi causing white and brown wood rot. Grow and destroy the structural wood of buildings. *Poria incrassata* causes a particularly destructive dry rot in buildings. A probably common allergen. Type I allergies (hay fever, asthma).

Bipolaris: Found outdoors in plant debris and soil. Found indoors on houseplants and indoor building materials. Type I allergies (hay fever, asthma). Most commonly reported cause of allergic and chronic invasive sinusitis.

Botrytis: Plant pathogen responsible for causing gray mold (*B. cinerea*) on grapes, strawberries, raspberries, blackberries, low bush blueberries, lettuce, cabbage and onion. Indoors it is found on houseplants fruits and vegetables. Type I (hay fever, asthma) and type III (hypersensitivity) allergies.



H2O EnviroComp Fungal Glossary

Candida: Found in leaves, flowers, soil, water and is an inhabitant of the skin, mouth and vagina. It is unknown what suitable substrates are in the indoor environment. Has been reported as an allergen. Occurs in patients taking drugs such as oral contraceptives and antibiotics.

Cercospora: Found outdoors on plants. It is a plant parasite causing leaf spot. It is unknown what substrates it prefers indoors. Thrives in moderate to high humidity its allergenic potential is unknown.

Chaetomium: Found outdoors in soil, seeds, dung, woody and straw materials. Indoors found on damp sheet rock paper. Type I allergies (hay fever, asthma).

Coprinus: Found outdoors in wood, dung, litter and soil. Industrial uses: Popular experimental organism in genetic research

Cladosporium: Found outdoors in soil of many different types. Indoors it is found on many substrates including textiles, wood, and moist windowsills. Cladosporium grows at 0degrees C, and so is associated with refrigerated foods. It is a common and important allergen. Type I allergies (hay fever, asthma).

Cladophialophora (form of Cladosporium): Phialophora: Found outdoors in wood roots, stems and leaves of plants and grasses, and soil. It is a water loving fungus. Allergenicity has not been studied.

Coprinus: Found outdoors in wood, dung, litter and soil. Industrial uses: Popular experimental organism in genetic research

Curvularia: found outdoors in plant saprobe and pathogen to cereal plants and soil. Found indoors in paper and wood products. Type I allergies (asthma and hay fever) A relatively common cause of allergic fungal sinusitis.

Dactylaria: Found outdoors in decaying soil and leaves. Dactylaria species comprise a very small proportion of the fungal biota. There have been several reports of opportunistic infections caused by these genera but a true pathogenic role has not been firmly established. No information is available regarding upper respiratory health effects, or toxicity. Allergenicity has not been studied.

Epicoccum: Found outdoors in plant debris and soil. Found indoors in paper and textiles. Type I allergies (asthma and hay fever).

Fusarium: Found outdoors in soil. Occasionally found on a variety of substrates. Fusarium requires very wet conditions. Aw=0.86-0.91 (minimum for various species). . Type I allergies (asthma and hay fever).

Ganoderma: Found outdoors on conifers and hardwoods worldwide, causing white rot, root rot, and stem rot. Ganoderma species are known to cause allergies in people on a worldwide scale.

Memnoniella: Found outdoors in plant litter soil and many types of plants and trees. Found indoors on a variety of substrates (cellulolytic). Allergens are unknown. Very closely related to Stachybotrys.

Myxomycetes: Found outdoors in decaying logs and stumps, particularly in forested areas. Only found occasionally indoors. Type I allergies (hay fever, asthma)



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Nigrospora: Found outdoors in decaying plants and soil. Rarely found indoors. Type I allergies (asthma and hay fever).

Pithomyces: Found outdoors in bark, leaf litter and soils. Indoors it is found in paper and requires high levels of moisture for spore germination. Its allergenic potential is unknown.

Rust: Rusts are parasitic to many types of plants. Rust fungi require a living plant host for growth. Type I allergens (hay fever, asthma). There are 5000 known species of rusts belonging to at least 150 different genera. Rusts are the cause of great economic losses on many cultivated plants.

Scopulariopsis (Hyphomycetes) Teleomorph: *Microascus* (Ascomycetes) Mainly soil-borne, but also frequently isolated from wood, grain, fruit, paper, and food such as meat and dairy products. Also isolated from indoor environments. ***Most species can liberate arsenic gaseous compounds that can lead to arsenic poisoning. Has recently been associated with invasive human infections.***

Spegazzinia: Found outdoors in plants and soil. It is unknown what substrates it is found on indoors. Allergenic properties are unknown.

Stachybotrys: Stachybotrys grows on wet materials that contain cellulose and low nitrogen content. Usually but not limited to building materials such as wallboard paper (unfinished drywall) that has a high water activity over a long period of time. It produces several types of toxic metabolites and mycotoxins that can irritate skin and mucous membranes. One of the mycotoxins it produces called satratoxin is also toxic when inhaled. ***Extreme care should be taken when this organism is amplified indoors.*** Individuals with chronic exposure to the toxin produced by this fungus reported cold and flu symptoms, sore throat, diarrhea, headaches, fatigue, dermatitis, intermittent local hair loss, and generalized malaise. The toxins produced by this fungus will suppress the immune system affecting the lymphoid tissue and the bone marrow.

Stemphylium: Found outdoors in soil, wood, decaying vegetation. Some species found on leaves are plant pathogens. Indoors growth is rare. Known allergen. Shares allergens with Alternaria. Type I allergies (hay fever, asthma).

Trichoderma: Found outdoors in soil, wood, decaying vegetation. Some species found on leaves are plant pathogens. Indoors growth on paper, textiles, and wet wood. Known allergen. Type I allergies (hay fever, asthma), Type III allergies (hypersensitivity), and has occasionally been associated with disease in immunocompromised individuals.

Torula: Found outdoors in leaves, plant roots, plant litter, soil and wood. Indoors it is found in paper, wicker furniture and wood. Type I allergies (hay fever, asthma).

Ulocladium: Found outdoors in soil, dung, paint, grasses, fibers, wood, decaying plant material, paper and textiles. Indoors it is found in gypsum board, paper, paint, tapestries, jute and other straw materials. Ulocladium has a high water requirement. As an allergen it is major with type I allergies (hay fever, asthma) and it cross reacts with Alternaria, adding to the burden of Alternaria-sensitive patients.

Wallemia: Found outdoors in hay and soil. Found indoors in jams, salted fish, mattresses, textiles and wood in crawl spaces. It is a Type I (hay fever and asthma) allergen.

Zygomycetes: Found outdoors in decaying plant and animal matter. Found indoors in fruits and vegetables. It is a Type I (hay fever, asthma) and Type III (hypersensitivity) allergen. Many zygomycetes are extremely fast growing and can inhibit other fungi when competing for food and space.