



Supplementary Materials

Size and Zeta Potential Clicked Germination Attenuation and Anti-Sporangiospores Activity of PEI-Functionalized Silver Nanoparticles against COVID-19 Associated Mucorales (*Rhizopus arrhizus*)

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Table S1. List of identified biomolecules in surface-enhanced Raman spectra of *R. arrhizus* sporangiospores treated with PEI-f-AgNP-1 and 2 along with freshly harvested and germinated mycelium controls.

Wave Number (cm ⁻¹)	Mycelial Control	Sporangiospore Control	PEI-AgNP-1 Treated	PEI-AgNP-2 Treated
407		Trehalose	Trehalose	Trehalose
416	glycerol			
462			D-galactosamine	D-galactosamine
480			L-alanine	L-alanine
488		d- fructose		
537			Malic acid, cytosine	
548				cytosine
582	Succinic acid			
617			Thymine	
675			Glycerol	
787		PEP		
811		GSH		
814	14 MPDA			
848			Stearic acid	
879		L- arginine		
896				Cellulose
901			Amylose	
914		β-D-glucose		
1008				β carotene
1021		Galactosamine		
1045			L- proline	
1046		L-tryptophan		
1065	Triolein			
1110				Glycerol

1122	L-arginine		
1126		N-acetyl glucosamine	
1140		Histidine	
1171		Acetoacetate	
1205		Chitin	
1223			Trehalose
1224		GSH	
1243		Acetyl coA	Acetyl coA
1264		Amylopectin	Amylopectin
1309			Phenylalanine
1318		Glycerol	
1413		L-proline	
1439			Vaccenic acid
1453		L- Proline	
1455	Trehalose, Uracil		
1501			Methyl palmitic acid