

Table S1. Sequencing data generated by DNA-Seq, RNA-Seq and 16S rRNA

<b>DNA-Seq</b>	<b>Total Reads</b>	<b>After Trimming</b>	<b>% Mapped Host</b>	<b>Mapped to DNA Viral Reads</b>	<b>Mapped to Bacteriophage</b>	<b>Mapped to Fungi</b>
Week 0	46,586,608	46,568,465	86.43	1	68,174	545
Week1	43,940,202	43,911,476	81.11	0	63,256	649
Week 2	33,471,831	33,442,860	89.8	1	61,974	48
Week 3	45,131,953	45,108,639	84.81	2	68,330	313
Week 4	44,621,969	44,600,956	90	387	61,412	109
Week 5	38,630,592	38,590,484	88.99	7	51,011	142
Week 6	45,915,721	45,900,494	89.73	4,634	66,310	82
Week 7	41,215,207	41,196,338	90.18	131	64,215	76
<b>Total</b>	<b>339,514,083</b>	<b>339,319,712</b>	<b>701</b>	<b>5,163</b>	<b>504,682</b>	<b>1,964</b>
<b>Average</b>	<b>42,439,260</b>	<b>42,414,964</b>	<b>88</b>	<b>645</b>	<b>63,085</b>	<b>246</b>

  

<b>RNA-Seq</b>	<b>Total Reads</b>	<b>After Trimming</b>	<b>% Mapped Host</b>	<b>Mapped to RNA Viral Reads</b>
Week 0	62375955	62351619	49.21	416
Week1	54,496,930	54,477,530	44.3	16,569
Week 2	51,426,090	51,415,545	65.54	10,016
Week 3	57,566,851	57,551,710	28.76	977
Week 4	56,334,014	56,321,058	61.62	3,660
Week 5	50,937,821	50,926,463	57.56	4,579
Week 6	53,248,431	53,236,536	59.08	29,476
Week 7	54,173,052	54,162,138	61.44	6,243
<b>Total</b>	<b>440,559,144</b>	<b>440,442,599</b>	<b>428</b>	<b>71,936</b>
<b>Average</b>	<b>55,069,893</b>	<b>55,055,325</b>	<b>53</b>	<b>8,992</b>

  

<b>16S rRNA</b>	<b>Total Reads</b>	<b>OTUs</b>
Week 0	8,438	47
Week 1	7,550	79
Week 2	6,737	76
Week 4	9,450	63
Week 5	10,718	50
Week 7	7,288	38
<b>Total</b>	<b>50,181</b>	<b>353</b>
<b>Average</b>	<b>8,364</b>	<b>59</b>

Table S2. Average normalized relative abundance of viruses detected.

Strand	Segments	Envelope	Family	Genus	Species								
double stranded DNA	7.59%	enveloped DNA	0.09%	Herpesviridae	0.09%	Iltovirus	0.02%	Gallid alphaherpesvirus 1 Meleagrid	0.02%				
						Mardivirus	0.06%	alphaherpesvirus 1 Gallid alphaherpesvirus 2&3	0.01% 0.06%				
single stranded DNA	19.12%	non-enveloped DNA	7.50%	Adenoviridae	7.50%	Aviadenovirus	7.50%	Fowl aviadenovirus	7.50%				
		non-enveloped DNA	19.12%	Circoviridae	19.12%	Gyrovirus	19.12%	Avian gyrovirus	19.12%				
single stranded RNA	73.95%	positive, non- segmented	73.64%	non-enveloped RNA	0.77%	Astroviridae	0.74%	Avastrovirus	0.74%	Chicken astrovirus	0.74%		
								Picornoviridae	0.02%	Sicivirus	0.02%	Chicken sicivirus JSY	0.02%
						enveloped RNA	72.87%	Coronaviridae	24.62%	Gammacoronavirus	24.62%	Avian infectious bronchitis virus	24.62%
										Retroviridae	48.25%	Unclassified Retrovirus	48.25%
negative, segmented	0.31%	enveloped RNA	0.31%	Birnaviridae	0.31%	Avibirnavirus	0.31%	Avian carcinoma virus Infectious bursal disease virus	0.01% 0.31%				

Table S3. Normalized abundance of detected eukaryotic viruses at the species level.

Species	Week 0	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
<i>Gallid alphaherpesvirus 1</i>	33.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<i>Meleagrid alphaherpesvirus 1</i>	0.00	0.00	41.97	0.00	31.40	0.00	0.00	0.00
<i>Gallid alphaherpesvirus 2&amp;3</i>	0.00	0.00	0.00	63.84	1186.57	71.12	57.03	0.00
<i>Avian gyrovirus</i>	0.00	0.00	0.00	0.00	727764.39	12256.84	147165.92	68358.83
<i>Fowl aviadenovirus</i>	0.00	0.00	0.00	0.00	0.00	0.00	507048.92	12450.59
<i>Chicken astrovirus</i>	0.00	1490.69	0.00	0.00	0.00	0.00	0.00	0.00
<i>Chicken sicinivirus JSY</i>	0.00	0.00	0.00	42.11	42.11	0.00	0.00	0.00
<i>Avian carcinoma virus</i>	0.00	0.00	0.00	0.00	0.00	78.52	0.00	78.52
<i>Avian infectious bronchitis virus</i>	74.78	109675.86	67740.67	4048.83	15467.52	23999.29	207253.45	35914.02
<i>Infectious bursal disease virus</i>	0.00	0.00	0.00	0.00	64.88	0.00	22191.95	194.65
<i>Avian Endogenous Retrovirus</i>	19470.62	89108.98	47135.34	20718.00	76251.66	65275.35	67618.14	68898.80

Table S4. Normalized percent relative abundance of detected eukaryotic viruses at the species level. Sum of columns = 100%.

Family	Species	Week 0	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Frequency
Poxviridae		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
	<i>Gallid alphaherpesvirus 1</i>	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.5
Herpesviridae	<i>Meleagrid alphaherpesvirus 1</i>	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	12.5
	<i>Gallid alphaherpesvirus 2&amp;3</i>	0.00	0.00	0.00	0.26	0.14	0.07	0.01	0.00	50.0
Adenoviridae	<i>Fowl aviadenovirus</i>	0.00	0.00	0.00	0.00	0.00	0.00	53.30	6.70	25.0
Hepeviridae		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
Hepadnaviridae		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
Genomiviridae		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
Circoviridae	<i>Avian gyrovirus</i>	0.00	0.00	0.00	0.00	88.66	12.05	15.47	36.77	50.0
Parvoviridae		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
Reoviridae		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
Orthomyxoviridae		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
Phenuoviridae		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
Birnaviridae	<i>Infectious bursal disease virus</i>	0.00	0.00	0.00	0.00	0.01	0.00	2.33	0.10	37.5
Pneumoviridae		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
Paramyxoviridae		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
Astroviridae	<i>Chicken astrovirus</i>	0.00	0.74	0.00	0.00	0.00	0.00	0.00	0.00	12.5
Picornoviridae	<i>Chicken sicinivirus JSY</i>	0.00	0.00	0.00	0.17	0.01	0.00	0.00	0.00	25.0
Retroviridae	<i>Avian Endogenous Retrovirus</i>	99.45	44.49	41.02	83.30	9.29	64.20	7.11	37.06	100.0
	<i>Avian carcinoma virus</i>	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.04	25.0
Flaviviridae		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
Coronaviridae	<i>Avian infectious bronchitis virus</i>	0.38	54.76	58.95	16.28	1.88	23.60	21.79	19.32	100.0

Table S5. Normalized percent relative abundance of detected eukaryotic viruses at the family level. Sum of rows = 100%

<b>Viral Family</b>	<b>Week 0</b>	<b>Week 1</b>	<b>Week 2</b>	<b>Week 3</b>	<b>Week 4</b>	<b>Week 5</b>	<b>Week 6</b>	<b>Week 7</b>
Poxviridae	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Herpesviridae	24.86	0.00	5.30	37.27	21.54	10.16	0.87	0.00
Adenoviridae	0.00	0.00	0.00	0.00	0.00	0.00	88.84	11.16
Hepeviridae	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hepadnaviridae	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Genomiviridae	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Circoviridae	0.00	0.00	0.00	0.00	57.97	7.88	10.11	24.04
Parvoviridae	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Reoviridae	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Orthomyxoviridae	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phenuoviridae	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Birnaviridae	0.00	0.00	0.00	0.00	0.32	0.00	95.39	4.28
Pneumoviridae	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paramyxoviridae	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Astroviridae	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
Picornoviridae	0.00	0.00	0.00	97.06	2.94	0.00	0.00	0.00
Retroviridae	25.76	11.53	10.63	21.58	2.41	16.65	1.84	9.61
Flaviviridae	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coronaviridae	0.19	27.80	29.93	8.26	0.96	11.98	11.06	9.81

Table S6. Average relative abundance of detected bacteria.

Phylum		Class		Order		Family		Genus			
Actinobacteria	24.00%	Actinobacteria	24.00%	Corynebacteriales	5.25%	Corynebacteriaceae	5.25%		5.25%		
				Micrococcales	13.53%		Brevibacteriaceae	5.67%	Brevibacterium	5.67%	
							Dermabacteraceae	5.00%	Brachybacterium	5.00%	
							Micrococcaceae	2.87%	Yaniella	0.87%	
											2.00%
					Streptosporangiales	5.22%	Nocardiopsaceae	5.22%	Nocardiopsis	5.22%	
Bacteroidetes	5.78%	Bacteroidia	3.38%	Bacteroidales	3.38%	Bacteroidaceae	2.33%	Bacteroides	2.33%		
						Prevotellaceae	1.05%	Alloprevotella	1.05%		
		Flavobacteria	2.40%	Flavobacteriales	2.40%	Flavobacteriaceae	2.40%	Chryseobacterium	2.40%		
Firmicutes	56.17%	Bacilli	49.02%	Bacillales	21.35%	Bacillaceae	7.87%	Lentibacillus	0.83%		
								Paucisalibacillus	1.93%		
									5.10%		
							Staphylococcaceae	11.43%	Jeotgalicoccus	0.68%	
									Salinicoccus	2.07%	
									Staphylococcus	8.68%	
					Planococcaceae	2.05%		2.05%			
				Lactobacillales	27.67%	Aerococcaceae	0.60%	Facklamia	0.60%		
								Lactobacillaceae	14.50%	Lactobacillus	14.50%
								Leuconostocaceae	1.10%	Weissella	1.10%
								Streptococcaceae	2.03%	Streptococcus	2.03%
								Lactobacillales	8.28%		8.28%
	Clostridia	7.15%	Clostridiales	7.15%	Lachnospiraceae	2.59%	Lachnoclostridium	1.83%			

								0.77%	
					Ruminococcaceae	3.98%	Anaerotruncus	0.60%	
							Faecalibacterium	3.00%	
							Subdoligranulum	0.38%	
					Peptostreptococcaceae	0.58%		0.58%	
Proteobacteria	39.28%	Betaproteobacteria	3.00%	Burkholderiales	3.00%	Oxalobacteraceae	3.00%	3.00%	
		Gammaproteobacteria	36.28%	Pasteurellales	27.33%	Pasteurellaceae	27.33%	Gallibacterium	27.33%
				Pseudomonadales	5.03%	Pseudomonadaceae	5.03%	Pseudomonas	5.03%
				Xanthomonadales	3.00%	Xanthomonadaceae	3.00%	Xanthomonas	3.00%
				Enterobacterales	0.92%	Enterobacteriaceae	0.92%	Escherichia- Shigella	0.92%

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Table S7. Relative abundance of detected bacteria at the genera level. (Taxa that could not be assigned a genus are displayed using the highest taxonomic level that could be assigned to them: \* (family), \*\* (class), or \*\*\* (order))

Family	Genus	Week 0	Week 1	Week 3	Week 4	Week 5	Week 7	Frequency
Corynebacteriaceae	Corynebacteriaceae*	6.00	1.00	1.00	1.00	0.50	22.00	100
Brevibacteriaceae	<i>Brevibacterium</i>	9.00	6.00	7.00	5.00	4.00	3.00	100
Dermabacteraceae	<i>Brachybacterium</i>	8.00	6.00	5.00	7.00	2.00	2.00	100
Micrococcaceae	<i>Yaniella</i>	1.00	1.00	1.00	1.00	1.00	0.20	100
	Micrococcaceae*	2.00	0.00	0.00	0.00	0.00	0.00	16.7
Nocardiopsaceae	<i>Nocardiopsis</i>	3.00	1.00	1.00	21.00	0.10	0.00	83.3
Bacteroidaceae	<i>Bacteroides</i>	0.00	0.00	3.00	2.00	2.00	0.00	50
Prevotellaceae	<i>Alloprevotella</i>	2.00	0.00	0.00	0.00	0.10	0.00	33.3
Flavobacteriaceae	<i>Chryseobacterium</i>	7.00	0.00	0.00	0.10	0.10	0.00	50
Bacillaceae	<i>Lentibacillus</i>	2.00	0.40	0.10	0.00	0.00	0.00	50
	<i>Paucisalibacillus</i>	1.00	2.00	2.00	6.00	0.30	0.30	100
	<i>Jeotgalicoccus</i>	1.00	0.40	0.30	1.00	0.40	1.00	100
Staphylococcaceae	<i>Salinicoccus</i>	1.00	2.00	2.00	4.00	1.00	2.40	100
	<i>Staphylococcus</i>	3.00	7.10	11.00	16.00	6.00	9.00	100
	Bacillaceae*	6.50	6.30	4.20	10.40	1.20	2.00	100
Planococcaceae	Planococcaceae*	4.00	0.00	0.00	0.00	0.10	0.00	33.3
Aerococcaceae	<i>Facklamia</i>	2.00	0.00	0.10	0.20	0.00	0.10	66.7
Lactobacillaceae	<i>Lactobacillus</i>	5.10	14.10	34.10	7.00	18.20	8.50	100
Leuconostocaceae	<i>Weissella</i>	0.00	1.00	0.40	3.00	1.00	0.10	83.3
Streptococcaceae	<i>Streptococcus</i>	8.00	1.10	0.10	0.40	0.40	2.20	100
Lactobacillales	Lactobacillales**	1.00	23.00	0.10	0.00	11.00	6.30	83.3
	<i>Lachnoclostridium</i>	0.00	3.00	2.00	2.00	0.30	0.00	66.7
Lachnospiraceae	<i>Anaerotruncus</i>	0.00	1.00	1.00	0.10	0.30	0.00	66.7
	<i>Faecalibacterium</i>	0.00	0.00	5.00	2.00	4.00	1.00	66.7
Ruminococcaceae	<i>Subdoligranulum</i>	0.00	0.00	1.00	0.20	0.20	0.10	66.7



	Lachnospiraceae*	0.00	2.00	0.20	0.10	0.00	0.00	50
	Peptostreptococcaceae*	0.00	1.00	0.10	1.00	0.40	0.40	83.3
Peptostreptococcaceae	Bacilli***	0.50	1.00	2.40	1.40	0.50	0.00	83.3
Oxalobacteraceae	Oxalobacteraceae*	3.00	0.00	0.00	0.00	0.00	0.00	16.7
Pasteurellaceae	<i>Gallibacterium</i>	0.00	0.00	1.00	0.00	44.00	37.00	50
Pseudomonadaceae	<i>Pseudomonas</i>	13.00	2.00	0.00	0.00	0.10	0.00	50
Xanthomonadaceae	<i>Xanthomonas</i>	3.00	0.00	0.00	0.00	0.00	0.00	16.7
Enterobacteriaceae	<i>Escherichia-Shigella</i>	0.10	2.00	1.00	2.00	0.20	0.20	100

Table S8. Average normalized relative abundance of detected bacteriophage.

Order		Family		Genus		Species	Average		
Caudovirales	142.34%	Myoviridae	70.99%	P1virus	1.83%	<i>Enterobacteria phage P1</i>	0.75%		
						<i>Salmonella phage SJ46</i>	1.08%		
				Spounavirinae	6.97%	<i>Staphylococcus phage GH15</i>	0.67%		
						<i>Staphylococcus phage MCE-2014</i>	1.29%		
						<i>Staphylococcus phage P108</i>	1.13%		
						<i>Staphylococcus phage phiPLA-RODI</i>	2.50%		
						<i>Staphylococcus phage phiSA012</i>	1.39%		
						<i>Enterobacteria phage RB55</i>	39.16%		
				unclassified Myoviridae	22.31%	<i>Shigella phage SHFML-11</i>	0.73%		
						<i>Enterobacteria phage P88</i>	2.47%		
						<i>Enterobacteria phage phi92</i>	2.78%		
						<i>Enterobacteria phage Sfl</i>	2.09%		
						<i>Salmonella phage RE-2010</i>	6.53%		
						<i>Shigella phage SflV</i>	8.44%		
						<i>Enterobacteria phage T7</i>	6.75%		
				Podoviridae	40.19%	Autographivirinae	6.75%	<i>Escherichia phage TL-2011b</i>	8.23%
								<i>Enterobacteria phage VT2phi_272</i>	4.10%
								<i>Stx2 converting phage vB_EcoP_24B</i>	20.05%
				unclassified Podoviridae	1.06%	<i>Enterobacteria phage IME10</i>	1.06%		
						<i>Enterobacteria phage lambda</i>	2.55%		
				Siphoviridae	31.16%	Lambdavirus	11.15%	<i>Enterobacteria phage mEp460</i>	2.63%
								<i>Stx2-converting phage 1717</i>	3.99%
								<i>Staphylococcus phage SPbeta-like</i>	0.50%
<i>Lactobacillus prophage Lj928</i>	6.35%								
<i>Microbacterium phage Min1</i>	2.51%								
unclassified Siphoviridae	19.51%	<i>Staphylococcus phage phiRS7</i>	1.84%						
		<i>Staphylococcus phage StB20</i>	4.79%						
		<i>Staphylococcus phage StB20-like</i>	4.02%						
		<i>Enterobacteria phage YYZ-2008</i>	4.25%						
		<i>Uncultured phage crAssphage</i>	0.59%						
Unclassified	4.83%	Unclassified	4.83%	Unclassified	4.83%				

Table S9. Normalized abundance of detected bacteriophage at the species level.

Species	Week 0	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
<i>Enterobacteria phage IME10</i>	202.28	1258.09	150.16	611.33	0.00	0.00	0.00	0.00
<i>Staphylococcus phage SPbeta-like</i>	313.94	0.00	0.00	284.63	90.51	0.00	0.00	0.00
<i>Enterobacteria phage P88</i>	0.00	928.47	0.00	1353.48	484.17	0.00	0.00	0.00
<i>Staphylococcus phage GH15</i>	0.00	59.46	0.00	1040.16	41.34	0.00	0.00	0.00
<i>Shigella phage SHFML-11</i>	140.99	97.43	69.77	0.00	33.87	160.41	0.00	70.65
<i>Enterobacteria phage P1</i>	253.79	613.83	62.80	894.81	0.00	0.00	0.00	0.00
<i>Staphylococcus phage StB20-like</i>	0.00	0.00	0.00	3873.58	568.48	168.27	0.00	0.00
<i>Staphylococcus phage P108</i>	0.00	0.00	0.00	1290.95	123.15	48.60	0.00	0.00
<i>Staphylococcus phage phiSA012</i>	0.00	0.00	0.00	1108.69	244.06	48.16	0.00	0.00
<i>Microbacterium phage Min1</i>	2075.63	896.48	0.00	0.00	0.00	0.00	412.69	0.00
<i>Staphylococcus phage phiRS7</i>	924.06	191.57	0.00	3071.89	133.20	315.42	0.00	0.00
<i>Enterobacteria phage cdtI</i>	170.56	2298.33	0.00	773.17	245.85	0.00	135.64	128.21
<i>Enterobacteria phage SfiI</i>	1462.35	1732.38	310.15	1578.36	0.00	178.27	0.00	0.00
<i>Staphylococcus phage StB20</i>	0.00	0.00	0.00	2979.68	1421.19	168.27	156.82	148.23
<i>Salmonella phage SJ46</i>	387.63	1285.79	57.55	937.18	223.50	132.32	61.66	0.00
<i>Staphylococcus phage MCE-2014</i>	56.51	58.58	0.00	2732.68	0.00	144.68	0.00	42.48
<i>Enterobacteria phage lambda</i>	2480.22	2399.55	122.74	249.85	476.68	141.10	526.00	0.00
<i>Enterobacteria phage phi92</i>	0.00	55.94	0.00	978.52	933.43	184.20	0.00	0.00
<i>Enterobacteria phage mEp460</i>	2702.67	3175.06	267.49	1089.04	0.00	461.27	143.29	0.00
<i>Lactobacillus prophage Lj928</i>	0.00	10612.23	465.28	0.00	150.58	0.00	0.00	0.00
<i>Staphylococcus phage phiIPLA-RODI</i>	56.34	0.00	0.00	3490.40	284.23	480.77	0.00	42.35
<i>Salmonella phage RE-2010</i>	9637.67	4873.26	523.47	4617.59	847.08	802.38	186.95	353.40
<i>Enterobacteria phage T7</i>	7630.75	5620.16	298.12	3944.67	434.18	856.81	798.51	452.84
<i>Stx2-converting phage 1717</i>	5032.73	4012.93	478.95	2729.93	186.01	550.60	205.26	194.00
<i>Enterobacteria phage VT2phi_272</i>	6809.25	3781.24	270.78	3123.52	438.18	518.81	386.81	91.40
<i>Shigella phage SfiV</i>	11295.95	7318.20	898.40	3962.43	436.14	860.67	1283.37	0.00
<i>Escherichia phage TL-2011b</i>	11998.06	7981.90	398.79	4600.12	1032.51	916.89	996.93	269.22
<i>Enterobacteria phage RB55</i>	0.00	0.00	3982.75	0.00	0.00	5388.95	0.00	1284.90
<i>Stx2 converting phage vB_EcoP_24B</i>	38098.43	20466.63	825.71	12816.52	2004.26	949.24	3096.30	522.60
<i>Uncultured phage crAssphage</i>	1487.20	171.29	0.00	124.85	0.00	0.00	0.00	0.00
<i>Enterobacteria phage YYZ-2008</i>	5989.66	3482.95	108.44	2428.26	526.45	0.00	697.11	109.82

Table S10. Normalized percent relative abundance of detected bacteriophage at the species level.

Family	Species	Week 0	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Frequency	
Myoviridae	<i>Enterobacteria phage P88</i>		1.114		2.030	4.262				50	
	<i>Staphylococcus phage GH15</i>		0.071		1.560	0.364				37.5	
	<i>Shigella phage SHFML-11</i>	0.129	0.117	0.751	0.000	0.298	1.190		1.904	75	
	<i>Enterobacteria phage P1</i>	0.232	0.736	0.676	1.342					50	
	<i>Staphylococcus phage P108</i>				1.936	1.084	0.361			37.5	
	<i>Staphylococcus phage phiSA012</i>				1.663	2.149	0.357			37.5	
	<i>Enterobacteria phage Sfl</i>	1.339	2.078	3.338	2.367	0.000	1.323			62.5	
	<i>Salmonella phage SJ46</i>	0.355	1.542	0.619	1.405	1.968	0.982	0.678		87.5	
	<i>Staphylococcus phage MCE-2014</i>	0.052	0.070		4.098			1.074		1.145	62.5
	<i>Enterobacteria phage phi92</i>		0.067		1.467	8.218	1.367				50
	<i>Staphylococcus phage phiPLA-RODI</i>	0.052			5.234	2.502	3.568			1.141	62.5
	<i>Salmonella phage RE-2010</i>	8.825	5.845	5.634	6.924	7.457	5.954	2.057	9.525		100
	<i>Shigella phage SflV</i>	10.344	8.778	9.669	5.942	3.840	6.387	14.123			87.5
	<i>Enterobacteria phage RB55</i>			42.865				39.989		34.632	37.5
Podoviridae	<i>Enterobacteria phage IME10</i>	0.185	1.509	1.616	0.917					50	
	<i>Enterobacteria phage T7</i>	6.987	6.741	3.209	5.915	3.822	6.358	8.787	12.206	100	
	<i>Enterobacteria phage VT2phi_272</i>	6.235	4.535	2.914	4.684	3.858	3.850	4.257	2.464	100	
	<i>Escherichia phage TL-2011b</i>	10.987	9.574	4.292	6.898	9.090	6.804	10.970	7.256	100	
	<i>Stx2 converting phage vB_EcoP_24B</i>	34.887	24.549	8.887	19.219	17.645	7.044	34.073	14.086	100	
Siphoviridae	<i>Staphylococcus phage SPbeta-like</i>	0.287			0.427	0.797				37.5	
	<i>Staphylococcus phage StB20-like</i>				5.809	5.005	1.249			37.5	
	<i>Microbacterium phage Min1</i>	1.901	1.075					4.541		37.5	
	<i>Staphylococcus phage phiRS7</i>	0.846	0.230		4.606	1.173	2.341			62.5	
	<i>Enterobacteria phage cdtI</i>	0.156	2.757		1.159	2.164		1.493	3.456	75	
	<i>Staphylococcus phage StB20</i>				4.468	12.512	1.249	1.726	3.995	62.5	
	<i>Enterobacteria phage lambda</i>	2.271	2.878	1.321	0.375	4.196	1.047	5.788		87.5	
	<i>Enterobacteria phage mEp460</i>	2.475	3.808	2.879	1.633		3.423	1.577		75	
<i>Lactobacillus prophage Lj928</i>	0.000	12.729	5.008		1.326				37.5		

	<i>Stx2-converting phage 1717</i>	4.608	4.813	5.155	4.094	1.638	4.086	2.259	5.229	100
Unclassified	<i>Uncultured phage crAssphage</i>	1.362	0.205		0.187					37.5
	<i>Enterobacteria phage YYZ-2008</i>	5.485	4.178	1.167	3.641	4.635		7.671	2.960	87.5

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Table S11. Average normalized relative abundance of detected fungi.

Phylum	Class	Order	Family	Genus	Species	Average Abundance				
Ascomycota	Dothideomycetes	Capnodiales	Mycosphaerellaceae	Zymoseptoria	<i>Bipolaris cookei</i>	0.02%				
					<i>Didymella pinodes</i>	0.03%				
					<i>Mycosphaerella graminicola</i>	0.04%				
					<i>Pithomyces chartarum</i>	0.03%				
					<i>Stemphylium lycopersici</i>	0.02%				
		Pleosporales	Astrosphaeriellaceae	Pithomyces	<i>Pithomyces chartarum</i>	0.04%				
					<i>Didymella</i>	0.03%				
					<i>Bipolaris</i>	0.03%				
					<i>Stemphylium</i>	0.00%				
					<i>Zymoseptoria tritici</i>	0.002%				
	Eurotiomycetes	Onygenales	Arthrodermataceae	Trichophyton	<i>Aspergillus fumigatus</i>	0.08%				
					Chaetothyriales	Herpotrichiellaceae	Exophiala	<i>Aspergillus nidulans</i>	0.06%	
								Eurotiales	Aspergillaceae	Aspergillus
					<i>Epidermophyton floccosum</i>	0.28%				
		Eurotiales	Aspergillaceae	Penicillium	<i>Exophiala dermatitidis</i>	0.04%				
					<i>Penicillium chrysogenum</i>	0.13%				
					<i>Talaromyces marneffeii</i>	0.41%				
		Lecanoromycetes	Onygenales	Arthrodermataceae	Epidermophyton	<i>Trichophyton rubrum</i>	0.54%			
						Lecanorales	Parmeliaceae	Usnea	<i>Ricasolia amplissima</i>	0.01%
									Peltigerales	Lobariaceae
						<i>Amorphotheca resinae</i>	0.01%			
Leotiomycetes	Helotiales	Sclerotiniaceae	Botrytis	<i>Botrytis cinerea</i>	0.003%					
				Leotiomycetes incertae sedis	Myxotrichaceae	Amorphotheca	<i>Amorphotheca</i>	0.00%		
Saccharomycetes	Saccharomycetales	Debaryomycetaceae	Candida				<i>Candida dubliniensis</i>	0.01%		
				Debaryomyces	<i>Candida glabrata</i>	0.01%				
					<i>Debaryomyces</i>	0.01%				
				Meyerozyma	<i>hansenii</i>	0.01%				
					<i>Dekkera bruxellensis</i>	0.03%				

				Phaffomycetaceae	0.01%	Wickerhamomyces	0.01%	<i>Eremothecium gossypii</i>	0.01%
				Pichiaceae	0.02%	Brettanomyces	0.02%	<i>Eremothecium sinecaudum</i>	0.02%
				Saccharomycetaceae	0.54%	Eremothecium	0.01%	<i>Kazachstania Naganishii</i>	0.01%
								<i>Kluyveromyces marxianus</i>	0.001%
						Kazachstania	0.01%	<i>Kluyveromyces lactis</i>	0.002%
								<i>Kuraishia capsulata</i>	0.01%
								<i>Lachancea thermotolerans</i>	0.01%
						Kluyveromyces	0.01%	<i>Meyerozyma guilliermondii</i>	0.47%
						Lachancea	0.46%	<i>Saccharomyces cerevisiae</i>	0.002%
						Nakaseomyces	0.00%	<i>Sugiyamaella lignohabitans</i>	0.004%
						Saccharomyces	0.00%		
						Tetrapisispora	0.05%	<i>Tetrapisispora blattae</i>	0.001%
								<i>Tetrapisispora phaffii</i>	0.04%
								<i>Torulaspora delbrueckii</i>	0.01%
						Torulaspora	0.01%		
				Sacc. Incertae sedis	98.14%	Kuraishia	98.14%	<i>Wickerhamomyces ciferrii</i>	98.14%
				Trichomonascaceae	0.00%	Sugiyamaella	0.00%	<i>Yarrowia lipolytica</i>	0.002%
Schizosaccharomyces	0.00%	Schizosaccharomyces	0.00%	Schizosaccharomycetales	0.00%	Schizosaccharomyces	0.00%	<i>Schizosaccharomyces pombe</i>	0.002%
Sordariomycetes	3.37%	Diaporthales	0.10%	Cryphonectriaceae	0.06%	Chrysosporthe	0.06%	<i>Chrysosporthe austroafrica</i>	0.04%
								<i>Chrysosporthe deuterocubensis</i>	0.02%
				Diaporthaceae	0.04%	Diaporthe	0.04%	<i>Clonostachys rosea</i>	0.05%
								<i>Colletotrichum graminicola</i>	0.52%
		Glomerellales	0.52%	Glomerellaceae	0.52%	Colletotrichum	0.52%		
		Hypocreales	2.19%	Bionectriaceae	1.47%	Clonostachys	1.47%	<i>Diaporthe longicolla</i>	1.47%
				Hypocreaceae	0.22%	Trichoderma	0.22%	<i>Fusarium circinatum</i>	0.22%
								<i>Fusarium</i>	
				Nectriaceae	0.50%	Fusarium	0.41%	<i>graminearum</i>	0.13%
								<i>Fusarium mangiferae</i>	0.22%
								<i>Gibberella moniliformis</i>	0.04%

									<i>Nectria cinnabarina</i>	0.03%	
							Nectria	0.08%	<i>Neurospora crassa</i>	0.09%	
			Microascales	0.05%	Microasceae	0.05%	Scedosporium	0.05%	<i>Pestalotiopsis fici</i>	0.05%	
			Sordariales	0.03%	Chaetomiaceae	0.02%	Thermothelomyces	0.01%	<i>Scedosporium apiospermum</i>	0.01%	
							Thielavia	0.01%	<i>Sordaria macrospora</i>	0.02%	
					Sordariaceae	0.00%	Neurospora	0.00%	<i>Thermothelomyces thermophila</i>	0.002%	
							Sordaria	0.00%	<i>Thielavia terrestris</i>	0.002%	
			Xylariales	0.48%	Sporocadaceae	0.48%	Pestalotiopsis	0.48%	<i>Trichoderma asperellum</i>	0.48%	
Basidiomycota	0.08%	Tremellomycetes	0.03%	Agaricales	0.03%	Agaricaceae	0.00%	Agaricus	0.00%	<i>Cryptococcus neoformans</i>	0.002%
						Marasmiaceae	0.00%	Moniliophthora	0.00%	<i>Cryptococcus gattii</i>	0.003%
						Tricholomataceae	0.03%	Laccaria	0.03%	<i>Tremella fuciformis</i>	0.03%
		Agaricomycetes	0.05%	Tremellales	0.05%	Cryptococcaceae	0.02%	Cryptococcus	0.02%	<i>Agaricus bisporus</i>	0.01%
									<i>Laccaria bicolor</i>	0.02%	
					Tremellaceae	0.03%	Tremella	0.03%	<i>Moniliophthora perniciosa</i>	0.03%	



Table S12. Normalized abundance of detected fungi at the species level.

Species	Week 0	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
<i>Candida glabrata</i>	4.53				3.79	11.63		
<i>Agaricus bisporus</i>					8.73	2.99		
<i>Amorphotheca resiniae</i>						3.17	5.13	
<i>Aspergillus fumigatus</i>		183.48		170.82				
<i>Aspergillus nidulans</i>		169.51						
<i>Aspergillus oryzae</i>	1.18	25.15	1.73	9.14	2.96	1.83	1.03	4.35
<i>Bipolaris cookei</i>						43.02		
<i>Botrytis cinerea</i>	4.84	2.87	2.94	2.43	2.93	2.70		
<i>Candida dubliniensis</i>		2.48			9.31		1.78	2.36
<i>Chrysosporthe austroafricana</i>		177.08		27.48				
<i>Chrysosporthe deuterocubensis</i>				42.15				
<i>Clonostachys rosea</i>		137.64						
<i>Colletotrichum graminicola</i>				925.76				
<i>Cryptococcus gattii</i>						2.94	2.45	
<i>Cryptococcus neoformans</i>		3.74		3.75				
<i>Debaryomyces hansenii</i>	3.69	7.92		8.80	4.07			
<i>Dekkera bruxellensis</i>		73.67		68.59				
<i>Diaporthe longicolla</i>		18760.22	125.00	1177.48	93.52	109.31		
<i>Didymella pinodes</i>	178.10							
<i>Epidermophyton floccosum</i>			216.10	169.64				
<i>Eremothecium gossypii</i>					5.51	3.24		
<i>Eremothecium sinecaudum</i>					5.48			
<i>Exophiala dermatitidis</i>	191.68							
<i>Fusarium circinatum</i>		587.48		703.22		174.09		

<i>Fusarium graminearum</i>		58.87		438.45				
<i>Fusarium mangiferae</i>				171.20				352.62
<i>Gibberella moniliformis</i>	92.73			97.55				
<i>Kazachstania naganishii</i>				5.28	3.87			
<i>Kluyveromyces lactis</i>						3.41		
<i>Kluyveromyces marxianus</i>		3.71		3.06				
<i>Kuraishia capsulata</i>	4.41	4.99			4.42			
<i>Laccaria bicolor</i>	4.83	9.98	3.31	4.87	2.48	7.43	4.03	9.27
<i>Lachancea thermotolerans</i>					3.28	3.40		
<i>Meyerozyma guilliermondii</i>					160.86			
<i>Moniliophthora perniciosa</i>				48.06				
<i>Mycosphaerella graminicola</i>	226.75							
<i>Nectria cinnabarina</i>		80.58						
<i>Neurospora crassa</i>		260.59						
<i>Penicillium chrysogenum</i>	89.75	42.56	6.87	45.95	288.28	147.93	15.96	6.87
<i>Pestalotiopsis fici</i>	286.75							
<i>Pithomyces chartarum</i>	144.63							
<i>Ricasolia amplissima</i>	60.54							
<i>Saccharomyces cerevisiae</i>		6.81						
<i>Scedosporium apiospermum</i>						14.31		
<i>Schizosaccharomyces pombe</i>								2.20
<i>Sordaria macrospora</i>	4.85	6.41	10.35		2.89		6.32	22.04
<i>Stemphylium lycopersici</i>		74.19						
<i>Sugiyamaella lignohabitans</i>		4.37		7.41	1.80			
<i>Talaromyces marneffeii</i>				147.97				761.92
<i>Tetrapisispora blattae</i>	6.77			1.94				
<i>Tetrapisispora phaffii</i>		68.48	45.12	21.25	20.25	23.67	26.32	58.36
<i>Thermothelomyces thermophila</i>	1.30	1.46	1.48	1.06	0.46	1.63	1.29	1.94
<i>Thielavia terrestris</i>	1.98	1.37	1.92	1.49	1.23	2.20	1.00	0.90

<i>Torulaspora delbrueckii</i>							4.00	
<i>Tremella fuciformis</i>	142.18							
<i>Trichoderma asperellum</i>					166.60			
<i>Trichophyton rubrum</i>			247.54					
<i>Usnea ceratina</i>		85.94				89.13		
<i>Wickerhamomyces ciferrii</i>	539341.10	286941.40	45174.40	174945.06	33799.87	218599.53	50508.57	51128.68
<i>Yarrowia lipolytica</i>	2.16	1.37		1.44	2.17	1.61	1.49	
<i>Zymoseptoria tritici</i>	1.42				1.43			

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Table S13. Normalized percent relative abundance of detected fungi at the species level.

Species	Week 0	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Frequency
<i>Candida glabrata</i>	0.0008				0.0109	0.0053			37.5
<i>Agaricus bisporus</i>					0.0252	0.0014			25
<i>Amorphotheca resiniae</i>						0.0014	0.0101		25
<i>Aspergillus fumigatus</i>		0.0596		0.0953					25
<i>Aspergillus nidulans</i>		0.0551							12.5
<i>Aspergillus oryzae</i>	0.0002	0.0082	0.0038	0.0051	0.0086	0.0008	0.0020	0.0126	87.5
<i>Bipolaris cookei</i>						0.0196			12.5
<i>Botrytis cinerea</i>	0.0009	0.0009	0.0064	0.0014	0.0085	0.0012			75
<i>Candida dubliniensis</i>		0.0008			0.0269		0.0035	0.0023	50
<i>Chrysosporthe austroafricana</i>		0.0575		0.0153					25
<i>Chrysosporthe deuterocubensis</i>				0.0200					12.5
<i>Clonostachys rosea</i>		0.0447							12.5
<i>Colletotrichum graminicola</i>				0.5165					12.5
<i>Cryptococcus gattii</i>						0.0013	0.0049		25
<i>Cryptococcus neoformans</i>		0.0012		0.0021					25
<i>Debaryomyces hansenii</i>	0.0007	0.0026		0.0049	0.0118				50
<i>Dekkera bruxellensis</i>		0.0239		0.0383					25
<i>Diaporthe longicolla</i>		6.0952	0.2727	0.6569	0.2703	0.0499			62.5
<i>Didymella pinodes</i>	0.0329								12.5
<i>Epidermophyton floccosum</i>			0.4715	0.0946					25
<i>Eremothecium gossypii</i>					0.0159	0.0015			25
<i>Eremothecium sinicaudum</i>					0.0158				12.5
<i>Exophiala dermatitidis</i>	0.0354								12.5
<i>Fusarium circinatum</i>		0.1909		0.3923		0.0794			37.5
<i>Fusarium graminearum</i>		0.0191		0.2446					25

<i>Fusarium mangiferae</i>				0.0955				0.3405	25
<i>Gibberella moniliformis</i>	0.0171			0.0544					25
<i>Kazachstania naganishii</i>				0.0029	0.0112				25
<i>Kluyveromyces lactis</i>						0.0016			12.5
<i>Kluyveromyces marxianus</i>		0.0012		0.0017					25
<i>Kuraishia capsulata</i>	0.0008	0.0016			0.0128				37.5
<i>Laccaria bicolor</i>	0.0009	0.0032	0.0072	0.0027	0.0072	0.0034	0.0080	0.0179	100
<i>Lachancea thermotolerans</i>					0.0095	0.0015			25
<i>Meyerozyma guilliermondii</i>					0.4650				12.5
<i>Moniliophthora perniciosa</i>				0.0268					12.5
<i>Mycosphaerella graminicola</i>	0.0419								12.5
<i>Nectria cinnabarina</i>		0.0262							12.5
<i>Neurospora crassa</i>		0.0847							12.5
<i>Penicillium chrysogenum</i>	0.0166	0.0138	0.0150	0.0256	0.8333	0.0675	0.0315	0.0265	100
<i>Pestalotiopsis fici</i>	0.0530								12.5
<i>Pithomyces chartarum</i>	0.0267								12.5
<i>Ricasolia amplissima</i>	0.0112								12.5
<i>Saccharomyces cerevisiae</i>		0.0022							12.5
<i>Scedosporium apiospermum</i>						0.0065			12.5
<i>Schizosaccharomyces pombe</i>								0.0021	12.5
<i>Sordaria macrospora</i>	0.0009	0.0021	0.0226		0.0084		0.0125	0.0426	75
<i>Stemphylium lycopersici</i>		0.0241							12.5
<i>Sugiyamaella lignohabitans</i>		0.0014		0.0041	0.0052				37.5
<i>Talaromyces marneffeii</i>				0.0825				0.7358	25
<i>Tetrapisispora blattae</i>	0.0013			0.0011					25
<i>Tetrapisispora phaffii</i>		0.0222	0.0984	0.0119	0.0585	0.0108	0.0520	0.0564	87.5
<i>Thermothelomyces thermophila</i>	0.0002	0.0005	0.0032	0.0006	0.0013	0.0007	0.0026	0.0056	75
<i>Thielavia terrestris</i>	0.0004	0.0004	0.0042	0.0008	0.0035	0.0010	0.0020	0.0026	75
<i>Torulasporea delbrueckii</i>							0.0079		12.5

<i>Tremella fuciformis</i>	0.0263								12.5
<i>Trichoderma asperellum</i>					0.4816				12.5
<i>Trichophyton rubrum</i>			0.5400						12.5
<i>Usnea ceratina</i>		0.0279				0.0407			12.5
<i>Wickerhamomyces ciferrii</i>	99.7309	93.2272	98.5550	97.5976	97.6982	99.7037	99.8600	98.7550	100
<i>Yarrowia lipolytica</i>	0.0004	0.0004		0.0008	0.0063	0.0007	0.0029		50
<i>Zymoseptoria tritici</i>	0.0003				0.0041				12.5

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