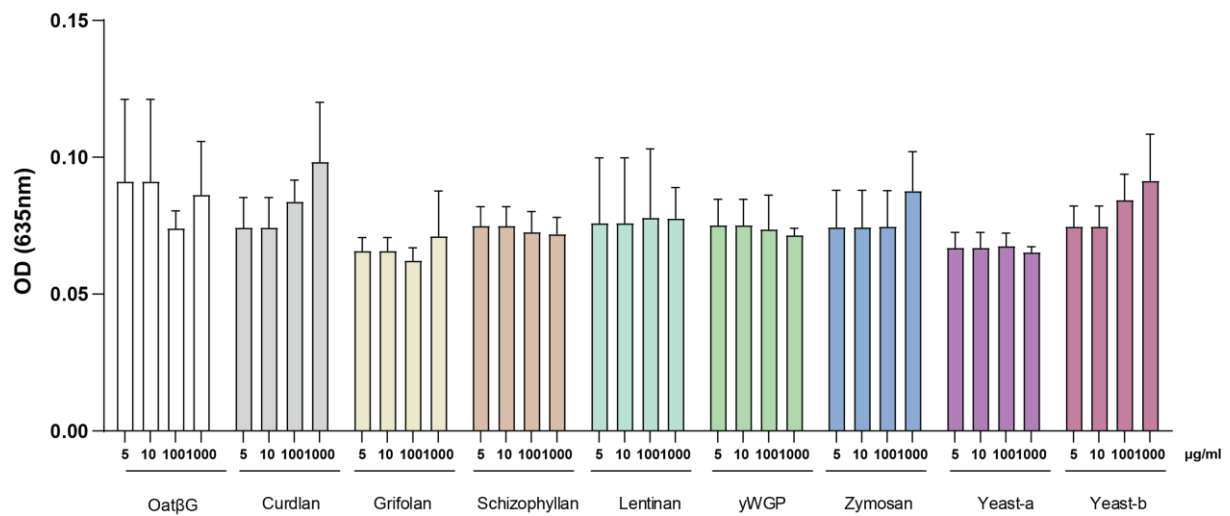


## Supplementary data



**Supplementary Figure 1. Beta-glucans do not activate the parental cell-line Null1-v that lacks both dectin-1 isoforms.** The parental cell line Null1-v cells were stimulated with 5, 10, 100 or 1000 µg/mL of β-glucans. After 24h stimulation, the secretion of SEAP was quantified in cell-free supernatants. Results of SEAP activity analysis are shown in a bar graph as average values ± SD of absorbance at 635 nm from n = 3 independent experiments.

**Supplementary Table 1.** Correlation of dectin-1a or -1b activation with macrophage secretion of TNF- $\alpha$ , IL-6, lactate or NO.

Model	Conc. $\beta$ -glucan ( $\mu$ g/ml)	p-value	r	Read-out parameter/receptor
Training	5	0,1832	0,3218	IL-6/Dectin-1a
	10	0,3218	0,1833	
	100	0,1793	0,3500	
	1000	0,1563	0,3833	
	5	0,1063	0,4667	IL-6/Dectin-1b
	10	0,0809	0,5167	
	100	0,2183	0,3000	
	1000	0,0809	0,5167	
	5	<b>0,0429</b>	0,6167	TNF- $\alpha$ /Dectin-1a
	10	0,0888	0,5000	
	100	0,0888	0,5000	
	1000	0,1681	0,3667	
	5	<b>0,0107</b>	0,7667	TNF- $\alpha$ /Dectin-1b
	10	<b>0,0156</b>	0,7333	
	100	<b>0,0294</b>	0,6667	
	1000	<b>0,0333</b>	0,6500	
5	0,1793	0,3500	Lactate/Dectin-1a	
10	0,2467	0,2667		
100	0,1681	0,3667		
1000	0,1348	0,4167		
5	<b>0,0333</b>	0,6500	Lactate/Dectin-1b	
10	<b>0,0484</b>	0,6000		
100	0,1456	0,4000		
1000	<b>0,0216</b>	0,7167		
5	0,4216	-0,0833	NO/Dectin-1a	
10	0,4742	-0,0333		
100	0,3718	0,1333		
1000	0,4558	-0,0500		
5	0,3878	-0,1167	NO/Dectin-1b	
10	0,4742	-0,0333		
100	0,4742	-0,0333		
1000	0,3389	-0,1667		
Resilience	5	0,3540	0,1500	IL-6/Dectin-1a
	10	0,3389	0,1667	
	100	0,1456	0,4000	
	1000	0,0664	0,5500	
	5	0,1348	0,4167	IL-6/Dectin-1b
	10	0,0888	0,5000	
	100	0,2183	0,3000	
	1000	<b>0,0294</b>	0,6667	
	5	0,1456	0,4000	TNF- $\alpha$ /Dectin-1a
	10	0,2050	0,3167	
	100	0,1250	0,4333	
	1000	0,1681	0,3667	
	5	0,0738	0,5333	TNF- $\alpha$ /Dectin-1b
	10	0,0809	0,5167	
	100	0,1149	0,4500	
	1000	0,0540	0,5833	
	5	0,1456	0,4000	Lactate/Dectin-1a
	10	0,0969	0,4833	
	100	<b>0,0294</b>	0,6667	
	1000	0,0738	0,5333	
	5	0,1681	0,3667	Lactate/Dectin-1b
	10	0,0969	0,4833	
	100	0,0888	0,5000	
	1000	0,1348	0,4167	
5	0,2603	-0,2500	NO/Dectin-1a	
10	0,1927	-0,3333		
100	0,0888	0,5000		
1000	<b>0,0030</b>	-0,8500		
5	0,1348	-0,4167	NO/Dectin-1b	
10	0,0738	-0,5333		
100	0,1456	-0,4000		
1000	<b>0,0041</b>	-0,8333		

