

Supplementary Material

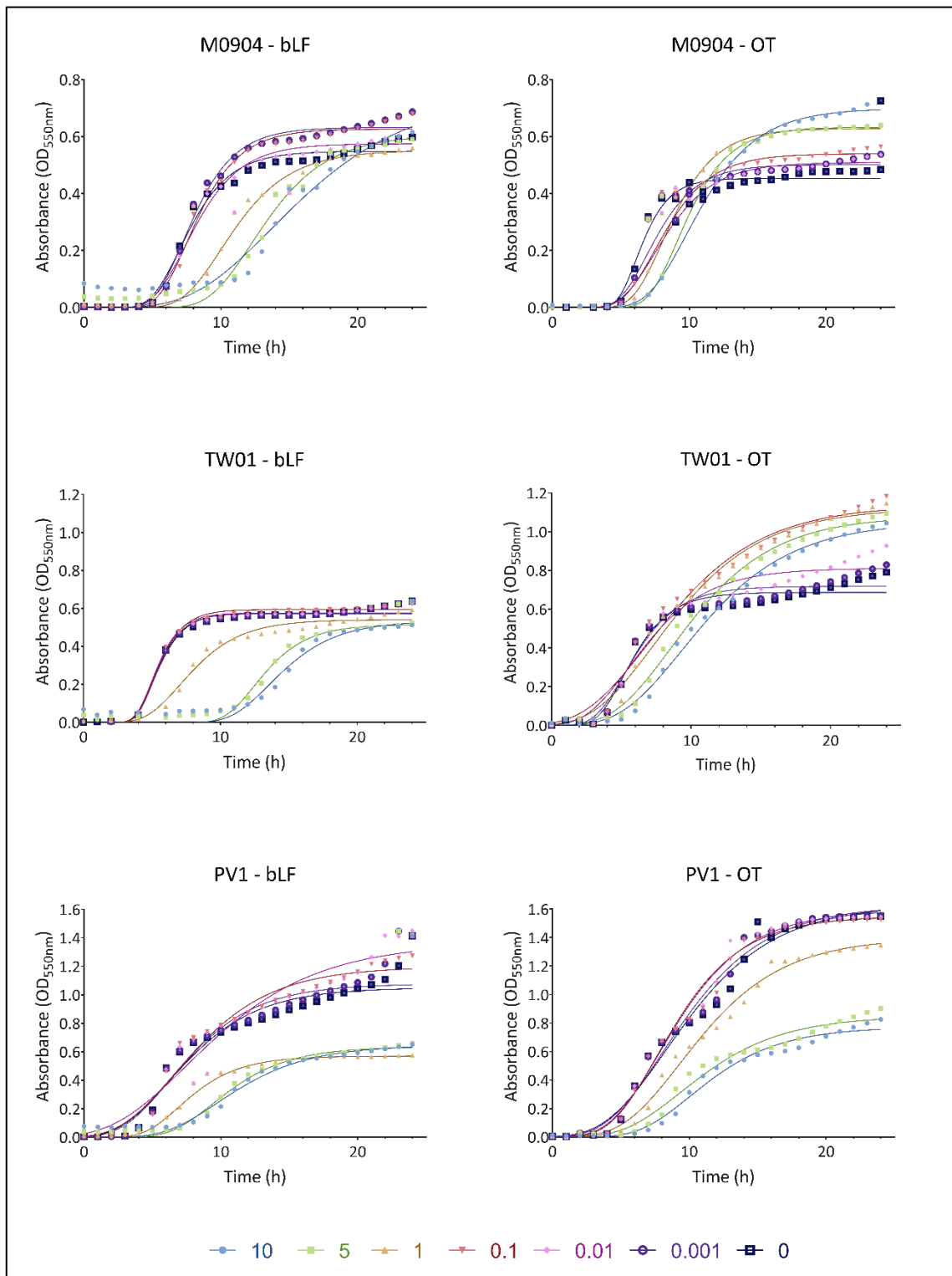
Bovine Lactoferrin and Hen Ovotransferrin Affect Virulence Factors of Acute Hepatopancreatic Necrosis Disease (AHPND)-Inducing *Vibrio parahaemolyticus* Strains

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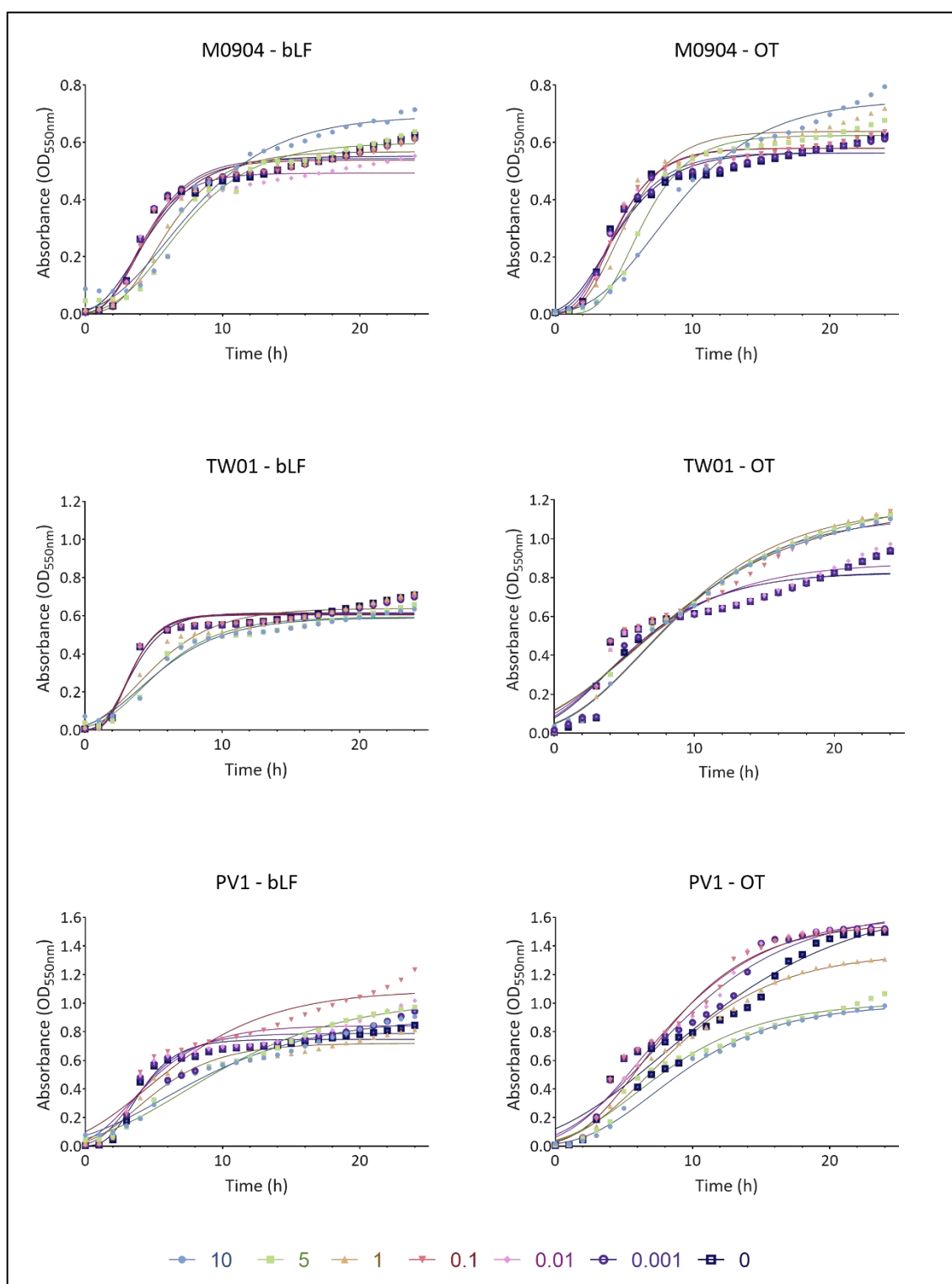
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1 Supplementary Figures and Tables

1.1 *Supplementary Figures*



Supplementary Figure S1. Growth curves of Vp M0904, Vp TW01 and Vp PV1, with a starting concentration of 105 CFU/ml, and incubation with bLF and OT at concentrations 0, 0.001, 0.01 0.1, 1, 5 and 10 mg/ml. Individual points represent the mean OD550 (n = 3), curves are the non-linear fitting to the modified Gompertz model.



Supplementary Figure S2. Growth curves of Vp M0904, Vp TW01 and Vp PV1, with a starting concentration of 107 CFU/ml, and incubation with bLF and OT at concentrations 0, 0.001, 0.01 0.1, 1, 5 and 10 mg/ml. Individual points represent the mean OD₅₅₀ (n = 3), curves are the non-linear fitting to the modified Gompertz model.

1.2 Supplementary Tables

Supplementary Table S1. A summary of the bacterial growth parameters of Vp M0904, Vp TW01 and Vp PV1 with populations 10⁵ and 10⁷ CFU/ml, derived from the modified Gompertz model. YM represents the maximum population, expressed as values of optical density (OD550), Lag represents the length of the lag time in h. Between brackets, significant differences between transferrin treatment and relative control (0 mg/ml) are indicated by asterisks, *p<0.05, **p<0.01, ***p<0.001, ****p<0.0001. (/: modified Gompertz model was not able to calculate growth parameters due to too long lag phase or completely flat curve).

Vp M0904					
	Treatment (mg/ml)	bLF		OT	
		YM	Lag	YM	Lag
10⁵ CFU/ml	10	0.750 (**)	7.949 (**)	0.699 (****)	6.945 (****)
	5	0.607 (ns)	9.155 (****)	0.633 (****)	7.016 (****)
	1	0.551 (ns)	7.215 (***)	0.628 (****)	5.887 (**)
	0.1	0.626 (ns)	5.431 (ns)	0.540 (****)	5.159 (ns)
	0.01	0.575 (ns)	5.094 (ns)	0.509 (ns)	5.050 (ns)
	0.001	0.632 (ns)	5.160 (ns)	0.501 (ns)	4.881 (ns)
	0	0.548	4.899	0.453	4.765
	0	0.548	4.899	0.453	4.765
10⁷ CFU/ml	10	0.694 (****)	1.585 (ns)	0.750 (****)	2.739 (**)
	5	0.599 (ns)	2.129 (ns)	0.624 (**)	3.214 (***)
	1	0.567 (ns)	2.284 (ns)	0.639 (***)	1.951 (ns)
	0.1	0.537 (ns)	1.490 (ns)	0.580 (ns)	1.698 (ns)
	0.01	0.492 (*)	1.411 (ns)	0.580 (ns)	1.472 (ns)
	0.001	0.543 (ns)	1.435 (ns)	0.564 (ns)	1.181 (ns)
	0	0.551	1.057	0.563	0.900
	0	0.551	1.057	0.563	0.900
Vp TW01					
	Treatment (mg/ml)	bLF		OT	
		YM	Lag	YM	Lag
10⁵ CFU/ml	10	0.534 (ns)	10.796 (****)	1.052 (****)	4.970 (*)
	5	0.515 (*)	10.310 (****)	1.082 (****)	4.435 (ns)
	1	0.540 (ns)	4.609 (ns)	1.122 (****)	3.001 (ns)
	0.1	0.594 (ns)	3.797 (ns)	1.138 (****)	2.337 (ns)
	0.01	0.575 (ns)	3.796 (ns)	0.811 (**)	2.433 (ns)
	0.001	0.572 (ns)	3.869 (ns)	0.718 (ns)	3.073 (ns)
	0	0.576	3.788	0.687	3.285
	0	0.576	3.788	0.687	3.285
10⁷ CFU/ml	10	0.589 (ns)	0.546 (ns)	1.119 (***)	0.844 (ns)
	5	0.593 (ns)	1.000 (ns)	1.209 (****)	-1.167 (ns)
	1	0.638 (ns)	0.655 (ns)	1.165 (***)	0.813 (ns)
	0.1	0.608 (ns)	1.461 (ns)	1.157 (***)	-1.125 (ns)
	0.01	0.609 (ns)	1.549 (ns)	0.877 (ns)	-1.138 (ns)
	0.001	0.604 (ns)	1.434 (ns)	0.831 (ns)	-0.808 (ns)
	0	0.615	1.274	0.826	-0.599
	0	0.615	1.274	0.826	-0.599
Vp PV1					
	Treatment (mg/ml)	bLF		OT	
		YM	Lag	YM	Lag
10⁵ CFU/ml	10	0.647 (****)	5.958 (**)	0.773 (****)	6.370 (**)
	5	0.635 (****)	6.317 (***)	0.851 (****)	5.234 (ns)
	1	0.569 (****)	4.424 (ns)	1.400 (**)	5.126 (ns)
	0.1	1.196 (ns)	2.618 (ns)	1.550 (ns)	4.244 (ns)
	0.01	1.364 (***)	2.103 (ns)	1.592 (ns)	4.173 (ns)
	0.001	1.076 (ns)	2.738 (ns)	1.627 (ns)	3.957 (ns)
	0	1.050	2.533	1.633	3.835
	0	1.050	2.533	1.633	3.835

10⁷ CFU/ml	10	0.901 (*)	-0.521 (ns)	0.993 (****)	2.120 (*)
	5	1.033 (**)	0.587 (ns)	1.007 (****)	0.840 (ns)
	1	0.720 (ns)	0.469 (ns)	1.355 (**)	1.568 (ns)
	0.1	1.092 (****)	-0.675 (ns)	1.562 (ns)	1.775 (ns)
	0.01	0.842 (ns)	0.361 (ns)	1.610 (ns)	0.911 (ns)
	0.001	0.788 (ns)	0.940 (ns)	1.652 (ns)	0.683 (ns)
	0	0.747	1.547	1.731	-0.184