

**Table S1: Efficacy of dsRNA against *P.infestans* using detached leaf assay**

dsRNA treatment (250 ng/ul)	LA (cm <sup>2</sup> )	Sporulation (X10 <sup>3</sup> )	Disease Reaction
dsRNA SDH	2.4	2	Resistant
dsRNA EF-1 $\alpha$	2.5	3	Resistant
dsRNA Hsp90	2.3	2	Resistant
dsRNA SDH+ EF-1 $\alpha$ +Hsp90 (150ng/ul)	0.8	1	Highly Resistant
Control	7.5	7.1	Susceptible

**Table S2: Efficacy of dsRNA (GPI-HAM34 and PLD-3 gene) against *P.infestans* with and without nano clay particle using detached leaf assay**

dsRNA (200 ng/ul)/ treatment	LA (cm <sup>2</sup> )	Sporulation (x10 <sup>3</sup> )	Disease Reaction
<b>dsRNA</b>			
dsRNA GPI-HAM34	2.5	2	Resistant
dsRNA PLD-3	2.7	3	Moderately Resistant
dsRNA GPI-HAM34+PLD-3	0.5	0	Highly Resistant
Control	7.8	8.5	Susceptible
<b>dsRNA with Nano clay particles</b>			
5 PPM of nano clay + 100ng/ul of GPI-HAM34, PLD-3 each	1.2	1	Resistant
10 PPM of nano clay + 100ng/ul of GPI-HAM34, PLD-3	0.2	0	Highly Resistant
20 PPM of nano clay + 100ng/ul of GPI-HAM34, PLD-3	0.8	1	Resistant
Control	5.6	4.8	Susceptible

**Table S3. Whole plant assay: dsRNA Nano clay spray against *P.infestans* sporulation**

dsRNA-Nano clay formulation (1%)	Sporulation (X10 <sup>3</sup> )	Disease Reaction
dsRNA	4	Resistant
Nano clay dsRNA	1	Highly Resistant
Control	12.5	Susceptible

**Table S4: Whole plant assay: dsRNA Nano clay formulation against late blight disease severity (%)**

<b>dsRNA-Nano clay formulation (1%)</b>	<b>Disease severity (%)</b>	<b>Disease Reaction</b>
dsRNA	23.6	Resistant
Nano clay dsRNA	4	Highly Resistant
Control	73.3	Susceptible