

organism	DOI	relation with host	host	disease	genetic amenability	evidence of horizontal transmission	evidence of vertical transmission	stability in midg	presence in ova	biosafety level
Ideal	na	Obligatory symbiont	All that transmit the same disease.	Any that pose public health concern	5 - As good as E. coli	Strong	Strong	Yes	Yes	1
<i>Pantoea agglomerans</i>	<a href="https://doi.org/10.1073/pnas.1204158109">10.1073/pnas.1204158109</a>	Extracellular commensal	<i>Anopheles</i> ; <i>Aedes</i> ; strains found ubiquitously	Malaria, Denge, Zika, others	4	Incomplete	Incomplete	Yes	No	1 or 2
<i>Serratia sp.</i>	<a href="https://doi.org/10.1126/science.aan5478">10.1126/science.aan5478</a>	Extracellular commensal	<i>Anopheles</i> ; strains found ubiquitously	Malaria, others	4 - doubling time of 49 min ( <a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3162031/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3162031/</a> )	Strong (sexual transmission)	Strong	High	Yes	1 or 2
<i>Sodalis glossinidius</i>	<a href="https://doi.org/10.1186/s12934-014-0156-6">10.1186/s12934-014-0156-6</a>	Secondary symbiont	Tse-tse fly ( <i>Glossina sp.</i> )	African Sleeping Sickness	2 - slow growth, doubling time of 15hrs	Strong ( <a href="https://www.ncbi.nlm.nih.gov/pubmed/25851957">https://www.ncbi.nlm.nih.gov/pubmed/25851957</a> )	Strong	Yes	Yes	1 - (guess)
<i>Asaia bogorensis</i>	<a href="https://doi.org/10.1371/journal.pone.0143541">10.1371/journal.pone.0143541</a>	Extracellular commensal	<i>Anopheles</i> , <i>Scaphoideus titanus</i>	Malaria, Flavescence dorée	3.5 - doubling time of 2h40min, <a href="http://2010.igem.org/Team:EPF_Lausanne/Project_asaia">http://2010.igem.org/Team:EPF_Lausanne/Project_asaia</a>	Incomplete	Incomplete	Yes ( <a href="https://www">https://www</a> )	Yes	1 - (guess)
<i>Rhodococcus rhodnii</i>	<a href="https://doi.org/10.1073/pnas.94.7.3274">10.1073/pnas.94.7.3274</a>	Intracellular Symbiont	<i>Rhodnius prolixus</i>	Chaga's disease	2 - slow growth	?	?	?	?	1 - (guess)
<i>Metarhizium anisopliae</i>	<a href="https://doi.org/10.1126/science.1199115">10.1126/science.1199115</a>	Entomopathogen	Diferent subspecies target diferent hosts	Malaria	2 - filamentous fungus	?	?	?	?	1 - (guess)
An. gambiae densovirus (AgDENV)	<a href="https://doi.org/10.1371/journal.ppat.1000135">10.1371/journal.ppat.1000135</a>	Weak pathogen ( <a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4179993/#ref-26">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4179993/#ref-26</a> )	<i>Anopheles gambiae</i>	Malaria	3 - mosquito cell culture	Not clear	Strong	?	?	1 - Not harmful for humans in any way
<i>Alcaligenes sp.</i>	<a href="https://doi.org/10.1007/s00284-003-4178-2">10.1007/s00284-003-4178-2</a>	?	Hemiptera: Cicadellidae family; xylem of plants	Citrus Variagate Cholrosis, Pierce's disease ( <i>Xylella fastidiosa</i> )	?	?	?	?	?	1 - (guess)

organism	organism_Q	DOI	DOI_QID	disease	disease_QID	host	host_QID
Ideal		NA	NA	NA	NA	All that transmit the same disease.	NA
Pantoea agglomerans	Q6336019	10.1073/PN	Q36140617	Malaria, Dengue, Zika	Q12156   Q3095	<i>Anopheles</i> ; <i>Aedes</i> ; strains found ubiquitously	Q158597   Q310911
Serratia sp.	Q134980	10.1126/SC	Q44168617	Malaria, others	Q12156	<i>Anopheles</i> ; strains found ubiquitously	Q158597
Sodalis glossinidius	Q16992606	10.1186/S1	Q34502952	African Sleeping	Q203133	Tse-tse fly ( <i>Glossina sp.</i> )	Q205256
Asaia bogorensis	Q16834282	10.1371/JO	Q35860846	Malaria, Flavescence	Q12156   Q1535	<i>Anopheles</i> , <i>Scaphoideus titanus</i>	Q158597   Q2972256
Rhodococcus rhodnii	Q26281293	10.1073/PN	Q36084282	Chaga's disease	Q649558	<i>Rhodnius prolixus</i>	Q3283052
Metarhizium anisoplii	Q134941	10.1126/SC	Q28306060	Malaria	Q12156	Diferent subspecies target diferent hosts	NA
An. gambiae densonu	Q106137750	10.1371/JO	Q21131593	Malaria	Q12156	<i>Anopheles gambiae</i>	Q135237
Alcaligenes sp.	Q135387	10.1007/S0	Q46013878	Citrus Variagate Cholrosis, Pierce's disease ( <i>Xylella fastidiosa</i> )	Q20730573   Q1	<i>Hemiptera: Cicadellidae</i> family; xylem of plants	Q244452

Q36140617	P921	Q7136190	S854	<a href="https://zenodo.org/record/4630965#.YFokGnVKgQa">"https://zenodo.org/record/4630965#.YFokGnVKgQa"</a>
Q44168617	P921	Q7136190	S854	<a href="https://zenodo.org/record/4630965#.YFokGnVKgQa">"https://zenodo.org/record/4630965#.YFokGnVKgQa"</a>
Q34502952	P921	Q7136190	S854	<a href="https://zenodo.org/record/4630965#.YFokGnVKgQa">"https://zenodo.org/record/4630965#.YFokGnVKgQa"</a>
Q35860846	P921	Q7136190	S854	<a href="https://zenodo.org/record/4630965#.YFokGnVKgQa">"https://zenodo.org/record/4630965#.YFokGnVKgQa"</a>
Q36084282	P921	Q7136190	S854	<a href="https://zenodo.org/record/4630965#.YFokGnVKgQa">"https://zenodo.org/record/4630965#.YFokGnVKgQa"</a>
Q28306060	P921	Q7136190	S854	<a href="https://zenodo.org/record/4630965#.YFokGnVKgQa">"https://zenodo.org/record/4630965#.YFokGnVKgQa"</a>
Q21131593	P921	Q7136190	S854	<a href="https://zenodo.org/record/4630965#.YFokGnVKgQa">"https://zenodo.org/record/4630965#.YFokGnVKgQa"</a>
Q46013878	P921	Q7136190	S854	<a href="https://zenodo.org/record/4630965#.YFokGnVKgQa">"https://zenodo.org/record/4630965#.YFokGnVKgQa"</a>
Q36140617	P921	Q6336019	S854	<a href="https://zenodo.org/record/4630965#.YFokGnVKgQa">"https://zenodo.org/record/4630965#.YFokGnVKgQa"</a>
Q44168617	P921	Q134980	S854	<a href="https://zenodo.org/record/4630965#.YFokGnVKgQa">"https://zenodo.org/record/4630965#.YFokGnVKgQa"</a>
Q34502952	P921	Q16992606	S854	<a href="https://zenodo.org/record/4630965#.YFokGnVKgQa">"https://zenodo.org/record/4630965#.YFokGnVKgQa"</a>
Q35860846	P921	Q16834282	S854	<a href="https://zenodo.org/record/4630965#.YFokGnVKgQa">"https://zenodo.org/record/4630965#.YFokGnVKgQa"</a>
Q36084282	P921	Q26281293	S854	<a href="https://zenodo.org/record/4630965#.YFokGnVKgQa">"https://zenodo.org/record/4630965#.YFokGnVKgQa"</a>
Q28306060	P921	Q134941	S854	<a href="https://zenodo.org/record/4630965#.YFokGnVKgQa">"https://zenodo.org/record/4630965#.YFokGnVKgQa"</a>
Q21131593	P921	Q106137750	S854	<a href="https://zenodo.org/record/4630965#.YFokGnVKgQa">"https://zenodo.org/record/4630965#.YFokGnVKgQa"</a>
Q46013878	P921	Q135387	S854	<a href="https://zenodo.org/record/4630965#.YFokGnVKgQa">"https://zenodo.org/record/4630965#.YFokGnVKgQa"</a>

Q6336019	P2975	Q158597	S854	" <a href="https://zenodo.org/record/4630965#_YFokGnVKgQa">https://zenodo.org/record/4630965#_YFokGnVKgQa</a> "	S248	Q36140617	
Q6336019	P2975	Q310911	S854	" <a href="https://zenodo.org/record/4630965#_YFokGnVKgQa">https://zenodo.org/record/4630965#_YFokGnVKgQa</a> "			
Q134980	P2975	Q158597	S854	" <a href="https://zenodo.org/record/4630965#_YFokGnVKgQa">https://zenodo.org/record/4630965#_YFokGnVKgQa</a> "	S248	Q44168617	
Q16992606	P2975	Q205256	S854	" <a href="https://zenodo.org/record/4630965#_YFokGnVKgQa">https://zenodo.org/record/4630965#_YFokGnVKgQa</a> "	S248	Q34502952	
Q16834282	P2975	<b>Q158597</b>	S854	" <a href="https://zenodo.org/record/4630965#_YFokGnVKgQa">https://zenodo.org/record/4630965#_YFokGnVKgQa</a> "	S248	Q35860846	
Q16834282	P2975	<b>Q2972256</b>	S854	" <a href="https://zenodo.org/record/4630965#_YFokGnVKgQa">https://zenodo.org/record/4630965#_YFokGnVKgQa</a> "			
Q26281293	P2975	Q3283052	S854	" <a href="https://zenodo.org/record/4630965#_YFokGnVKgQa">https://zenodo.org/record/4630965#_YFokGnVKgQa</a> "	S248	Q36084282	
Q134941	P2975	Q3283052	S854	" <a href="https://zenodo.org/record/4630965#_YFokGnVKgQa">https://zenodo.org/record/4630965#_YFokGnVKgQa</a> "			
Q106137750	P2975	Q135237	S854	" <a href="https://zenodo.org/record/4630965#_YFokGnVKgQa">https://zenodo.org/record/4630965#_YFokGnVKgQa</a> "	S248	Q21131593	
Q135387	P2975	Q244452	S854	" <a href="https://zenodo.org/record/4630965#_YFokGnVKgQa">https://zenodo.org/record/4630965#_YFokGnVKgQa</a> "	S248	Q46013878	